Ref. No.3627 091999

ONKYO® SERVICE MANUAL

AUDIO VIDEO CONTROL RECEIVER MODEL TX-DS676



Black and Golden models

BMD	120V AC, 60Hz
BMP,BMPT,BMPA,GMPT	230V AC, 50Hz
BMWT,BMWR,GMWT	220-230V/120V
GMWR	AC, 50/60Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK △ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.



SPECIFICATIONS

AMPLIFIER SECTION

Continuous Average Power output (FTC)

All channels: 105 watts per channel min. RMS at 8

ohms, 2 channels driven from 20 Hz to 20 kHz with no more than 0.08%

total harmonic distortion.

135 watts min. RMS at 6 ohms, 2 channels driven from 1 kHz with no more than 0.1% total harmonic dis-

tortion.

2.5 mV, 50 kohms

Continuous Power output (DIN) 140 watts at 6 ohms Maximum Power output (EIAJ) 170 watts at 6 ohms

Total Harmonic Distortion: 0.08% at rated power (Front) IM Distortion: 0.08% at rated power (Front) Damping Factor: 60 at 8 ohms (Front)

Input Sensitivity and Impedance

PHONO:

LINE (CD, TAPE, DVD,

VIDEO 1, 2, 3,4):

200 mV, 50 kohms MULTICHANNEL INPUT

(FRONT L/R, SURROUND L/R, CENTER):

200 mV, 50 kohms (SUBWOOFER): 36 mV, 50 kohms COAXIAL 1, 2 (DIGITAL): 0.5 Vp-p, 75 ohms

Output Level and Impedance

Rec out (TAPE, VIDEO 1): 200 mV, 2.2 kohms Pre out: 1 V. 470 ohms

Phono Overload: 110 mV RMS at 1 kHz, 0.5% T.H.D. Frequency Response: 20 Hz to 100 kHz, +1/-3 dB(LINE INPUT)

RIAA Deviation:

20 Hz to 20 kHz, ±0.8 dB

Tone Control

Bass: ±10 dB at 100 Hz Treble: ±10 dB at 10 kHz

Signal-to-Noise Ratio

Phono: 80 dB (IHF A, 5 mV input)

1 Vp-p, 75 ohms

CD/Tape: 100 dB (IHF A)

VIDEO SECTION

Input sensitivity/Impedance (DVD, VIDEO 1, 2, 3,4)

VIDEO (Composite):

Output Level/Impedance (VIDEO 1, MONITOR)

VIDEO (Composite): 1 Vp-p, 75 ohms TUNER SECTION

Tuning Range: 87.5 — 108.0 MHz (50 kHz steps)

Usable Sensitivity

Mono: 11.2 dBf, 1.0 µV (75 ohms IHF)

0.9 μV (75 ohms DIN)

Stereo: 17.2 dBf, 2.0 µV (75 ohms IHF)

23 µV (75 ohms DIN)

50 dB Quieting Sensitivity

Mono: 17.2 dBf, 2.0 µV (75 ohms) Stereo: 37.2 dBf, 20 µV (75 ohms)

Capture Ratio: 2.0 dB

Image Rejection Ratio

U.S.A. & Canadian models: 40 dB Other area models: 85 dB

IF Rejection Ratio: 90 dB

Signal-to-Noise Ratio

Mono: 76 dB Stereo: 70 dB Alternate Channel Attenuation: 55 dB Selectivity: 50 dB (DIN) AM Suppression Ratio: 50 dB

Total Harmonic Distortion

Mono: 0.2% Stereo: 0.3%

Frequency Response: 30 Hz - 15 kHz, ±1.0 dB

Stereo Separation: 45 dB at 1 kHz

30 dB at 100 Hz - 10 kHz

AM

Tuning Range

U.S.A. & Canadian models: 530-1,710 kHz (10 kHz steps) European & Australian models: 522—1,611 kHz (9 kHz steps) Worldwide models: 531-1,602 kHz (9 kHz steps),

530—1,710 kHz (10 kHz steps)

Usable Sensitivity: 30 µV Image Rejection Ratio: 40 dB IF Rejection Ratio: 40 dB Signal-to-Noise Ratio: 40 dB Total Harmonic Distortion: 0.7%

GENERAL

Power Supply: AC 120 V, 60 Hz

AC 230 V, 50 Hz

AC 220-230 V and 120 V switchable,

50/60 Hz

Power Consumption: 6.2 A

520 W

Dimensions (W \times H \times D): $435 \times 175 \times 453 \text{ mm}$

17-1/8" × 6-7/8" × 17-13/16"

Weight:

USA & Canadian models: 16.3 kg, 35.9 lbs. Others: 17.6 kg, 38.8 lbs.

REMOTE CONTROL

Transmitter: Infrared

Signal range: Approx. 5 meters, 16 ft. Power supply: Two "AA" batteries $(1.5 \text{ V} \times 2)$

Specifications and features are subject to change without notice.

Power supply and voltage vary depending on the area in which the unit is purchased.

SERVICE PROCEDURES

1. Replacing the fuses

This symbol located near the fuses indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utlise est a rapide. Pour une protection permanente, n'untiliser que fusibles de meme type. Ce darnier est la qu le present symbol est appse.

CIRCUIT NO.	PART NO.	DESCRIPTION
F904	252199	10A-UL, Primary <d w=""></d>
F902	252278 or	5A-SE-EAK or
	252044	5A-SE-TL250V,Primary
		<p a="" t="" w=""></p>
F903	252075 or	2.5A-SE-EAK or
	252241	2.5A-SE-TL250V,AC
		outlet <p t=""></p>
F941.F942	252160	2.5A-UL/T237,Secondary <d></d>
,	252241 or	2.5A-SE-EAK or
	252075	2.5A-SE-TL250V,Secondary
		<p a="" t="" w=""></p>

Note: <D>:120V model only <P>: European model only <T>: Asian model only <A>: Australian model only <W>: Worldwide model only

2. To initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical source results in accident which causes the specified operations and functions to operate abnormally.

To perform a result, please follow the procedure below.

- Press and hold down the VIDEO-1 button, then press the SPEAKER A button.
- 2.After "clear" is displayed, the preset memory and each mode stored in the memory, such as surround, are initialized and will return to the factory setting.

3. Safety-check out

(Only U.S.A. model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer. Connect the insulating-resistance tester between the plug of power supply cord and screw on the back panel.

Specifications: 3.3Mohm±10% at 500V.

4. Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in order to charge the back-up system.

The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a highly humid climate.

5.Setting the AM tuning step frequency (Wolrdwide models only)

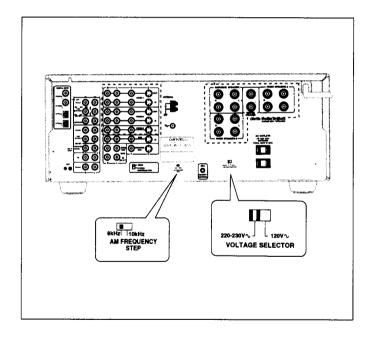
Worldwide models are equipped with a switch that controls the AM band tuning steps. Please set this switch to match the AM band tuning step frequency in your area.

U.S.A. and Canada: 10 kHz Other areas: 9 kHz

6.Setting the Voltage selector (Worldwide models only)

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit.

- Determine the proper voltage for your area: 220-230 V or 120 V.
- 2. If the preset voltage is not correct for your area, insert a screw-driver into the groove in the switch. Slide the switch all the way to the right (120 V) or to the left (220-230 V), whichever is appropriate.

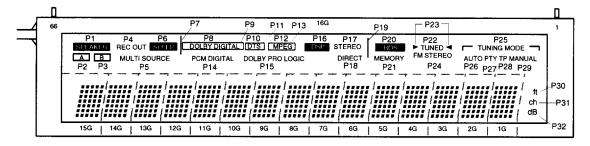


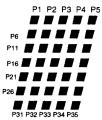
7. Changing the AM band step

With the exception of the worldwide models, a tuning step selector switch is not provided. When you change the band step, change the parts as shown below.

	To 10kHz	To 9kHz
R8085	Open	1 0k
R8086	10k	Open

FL TUBE VIEW





1. How to enter into Debug mode

During press and hold DSP key, press DISPLAY key.

Then "DEBUG MODE=NO" is displayed on FL tube.

During press and hold DSP key, press DISPLAY key again.

Then "DEBUG MODE=YES" is displayed on FL tube.

		0	1
15G,14G	Dialog normalization		
13G	DIR ERF	Digital In	No Digital In
12G	DIR AUTODATA	PCM	AC-3
10G,9G	DIR Address 03H	Refer to	the table 2.
8G,7G	DIR Address 04H	Refer to	the table 3.
5G,4G	Input mode	Refer to	the table 4.
3G	Mode	Refer to	the table 5.
2G	Surround mode	Refer to	the table 6.

	0X		0X	2X		
X=0	Null	7	Reserved	X=0	Silent	
1	Dolby Digital	8	MPEG2 L1	1	DTS LD	
2	Reserved	9	MPEG2 L2/3	2	DTS CD	
3	Pause	a	Reserved	3	Linear PCM	
4	MPEG1 L1	b	DTS1(512)			
5	MPEG1 L2,3/MPEG2 w/o	С	DTS1(1024)		Table 4	
6	MPEG2 w/e	d	DTS1(2048)			

Table 1

D7

~ .								
ERF	0	~AUDIO	AUTO	PEM	FS1	FS0	FS96]
0	0	0	0	0	0	0	0	Rs
Table 2	Audio bit Pre-empt 0:Audio output 1:Non audio 0:Off 1:On		0:Off	Sampling 00:44.1kHz 01:Off 10:48kHz 11: 32kHz		1:96kHz	_	
D7	D6	D5	D4	D3	D2	D1	D0	1
CV	STC	CRC	LOCK	V	0	BIP	PAR	┚
0	0	0	0	0	0	0	0	Rs

D4

D3

D2

0	LFE:Off
1	LFE:On
8	Dolby surround encoder:Off
9	Dolby surround encoder:ON

Table 5

Channel Status Validity 0:Valid

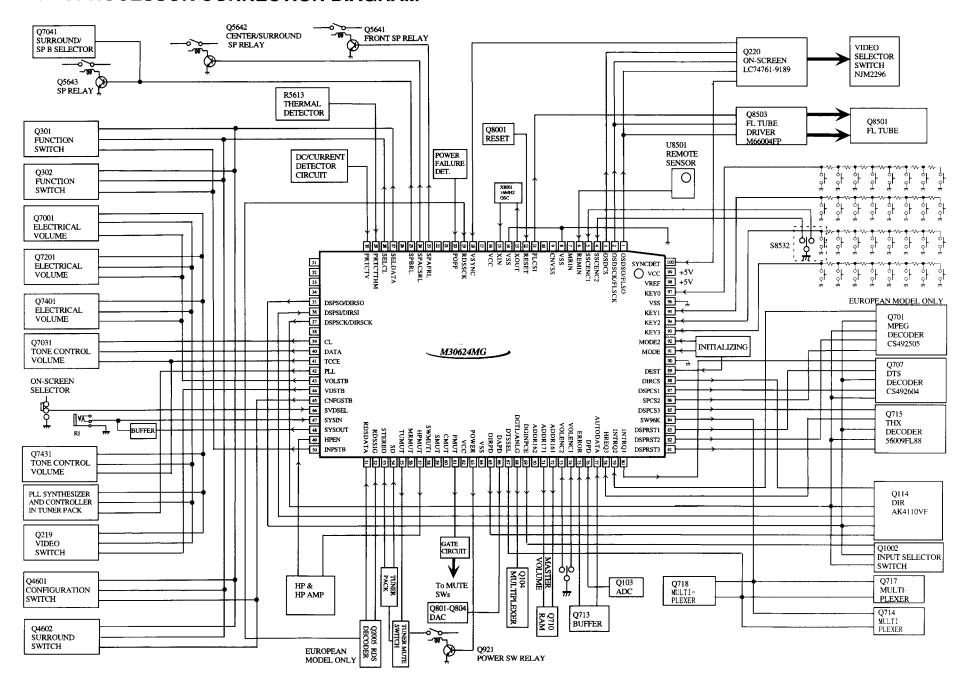
Table	3
Laute	,

D1

 $\overline{D0}$

	DSP		hen DTS	When DTS				
0	1+1	0	Mono	8	L+R+SL+SR			
1	1/0	1	Dual Mono	9	C+L+R+SL+SR			
2	2/0	2	L+R	a	CL+CR+L+R+SL+SR			
3	3/0	3	(L+R)+(L-R)	b	C+L+R+SL+LR+RR+0V			
4	2/1	4	Lt+Rt	С	CF+CR+LF+RF+LR+RR			
5	3/1	5	C+L+R	d	CL+C+CR+L+R+SL+SR			
6	3/2	6	L+R+S	e	CL+CR+L+R+SL1+SL2+SR1+SR2			
-		7	C+L+R+S	f	CL+C+CR+L+R+SL+S+SR			

MICROPROCESSOR CONNECTION DIAGRAM



MICROPROCESSOR TERMINAL DESCRIPTIONS

PIN NO). SYMBOL	11/0	DESCRIPTION				Negative logic
1	OSDSO/FLSO	10		PIN NO	SYMBOL	1/0	DESCRIPTION :Negative logic
2	OSDSCK/FLSCK	1 6	Tourist data datpat pin to OOD and I horrescent tupe driver it's	51	RDSDATA		Data input pin from RDS decoder
3	OSDCS	1 0	Serial clock output pin to OSD and Fluorescent tube driver ICs.	52	RDSSIG		Signal input pin from RDS decoder
4	SSCENC2	1 	Tarib coroct output bill to Odb 10.	53	~STEREO	\perp	Detection input pin for FM STEREO broadcast
5	SSCENC1	+-:	Rotary encoder input pin for SSC.	54	~SD		Detection input pin for the broadcast
6	*REMIN	+-	Rotary encoder input pin for SSC.	55	TUMUT	0	Muting control output pin for FM section
7	~MRIN	++	Signal input pin from remote controller	56	MRMUT	0	Muting control output pin for multi room section
8	VSS	+-	Signal input pin from remote controller for Multi room	57	HPMUT	0	Muting control output pin for headphone section
9	VSS	+-	Ground pin	58	SWMUT1	0	Muting control output pin for super woofer 1
10	V 33	┼	Ground pin	59	SMUT	0	Muting control output pin for surround channel
11	FLCSI	0	Ok.	60	CMUT	0	Muting control output pin for center channel
12	RESET	 	Chip select output pin to OSD IC.	61	FMUT	0	Muting control output pin for front channel
13	XOUT	 	Microprocessor reset input pin	62	VCC		Power supply pin
14	VSS	1 1	Oscillator circuit output pin for main clock	63	POWER	0	Power source relay control output pin
15	XIN	++	Ground pin	64	VSS		Ground pin
16	VCC	 ! -	Oscillator circuit input pin for main clock	65	~DIRPD	0	Power down signal output pin for DIR IC
17	TVCC	-	Power supply pin	66	~DAPD	0	Reset output pin for D/A converter.
18	VSYNC	 .		67	DTSSEL	0	DSP switching output pin for DTS/MPEG2 decoder.
19		├ 	Vertical synchronizing signal input pin	68	DGTL/ANLG	0	Digital/Analog select pin. Digital at the low level.
20	RDSSCK POFF	1 !	Clock input pin from RDS decoder	69	DGINPCE	0	Chip enable output pin for digital input selector IC LC7824.
21	POFF		Power failure detection input pin	70	ADDR162	0	ADDR 16 output pin to DSP of MPEG2 decoder
22		-		71	ADDR171	0	ADDR 17 output pin to DTS decoder
	OD 4 FDI	-		72	ADDR161	ō	ADDR 16 output pin to DTS decoder
23	SPAFRL	0	Speaker A relay control output pin for front channel	73	VOLENC2	1	Rotary encoder input pin for volume
24	SPACSRL	0	Speaker A relay control output pin for center and surround channels	74	VOLENC1	Ti	Rotary encoder input pin for volume
25	SPBRL	0	Speaker B relay control output pin	75	ERROR		Lock error signal input pin for DIR
26	OF! DATA			76	DPD		Reset signal output pin for A/D converter
27	SELDATA	0	Data output pin to function switch ICs	77	AUTODATA	<u> </u>	AUTODATA signal input pin for DSP.
28	SELCL	0	Clock output pin to function switch ICs	78	~HREQ3	1 i	HREQ input pin from the surround DSP
29 30	PRTCTTHM		Detection input pin for Thermal protector	79	~INTRQ2		INTRQ input pin from DSP of MPEG2 decoder
	PRTCTV		Detection input pin for Current and voltage protector	80	~INTRQ1	Ó	INTRQ input pin from DTS decoder
31				81	~DSPRST3	0	Reset signal output pin to the surround DSP
32				82	DSPRST2	0	Reset signal output pin to DSP of MPEG2 decoder
33				83	DSPRST1	0	Reset signal output pin to the DTS decoder
34				84	~SW96K	-	Signal pass select pin when PCM 96kHz
	DSPSO/DIRSO	_0_	Serial data output pin to DSP and DIR ICs.	85	~DSPCS3		Chip select output pin to the surround DSP
	DSPSI/DIRSI		Serial data input pin from DSP and DIR ICs.	86	DSPCS2	Ö	Chip select output pin to the surround DSP Chip select output pin to DSP of MPEG2 decoder
	DSPSCK/DIRSCK	_0_	Serial clock output pin to DSP and DIR ICs.	87	~DSPCS1	ō	Chip select output pin to the DTS decoder
38				88	~DIRCS	ō	Chip select output pin to the DTS decoder
	CL		Serial clock output pin to the function switch and Electro volume ICs.	-89	DEST		Initializing input pin
	DATA	0	Serial data output pin to the function switch and Electro volume ICs	90		<u> </u>	manana mput piii
	TCCE	0	Chip enable output pin for the tone control IC TC9184P.	91	MODE		Mode input pin
	PLL	_0	Serial data latch output pin for PLL IC on the tuner pack	92	MODE2		Mode 2 input pin
	VOLSTB	0	Strobe output pin for the Electro volume .IC		KEY3		Operation key connection pin 3
	VDSTB	0	Strobe output pin for the function switch ICs		KEY2	- ; 	Operation key connection pin 3 Operation key connection pin 2
	CNFGSTB	0	Strobe output pin for the function switch ICs		KEY1	- ; -	Operation key connection pin 2 Operation key connection pin 1
	SVDSEL		S/Composite video select		VSS	-: 	Power supply sign for A /D
	SYSIN		System code input pin	97	KEY0	' 	Power supply pin for A/D converter
	SYSOUT	0	System code output pin	98	VREF		Operation key connection pin 0
49	HPEN I	1	Detection input pin to insert the headphone jack.	+ +	VCC	-! 	Reference voltage pin for A/D converter Power supply pin for A/D converter
	INPSTB	$\overline{}$	Strobe output pi of input select ICs.	1 99 1			

CAUTION: Replacement of the transistor of mark *, if necessary, must be made from the same beta group (HFE) as the original type.

PRINTED CIRCUIT BOARD-PARTS LIST

POWER AMPI	IFIER PC BO	ARD	(NAAF-6600-3A/3B)				NP:No spare parts
CIRCUIT NO.	PART NO.		DESCRIPTION	CIRCUIT NO.	PART NO.		DESCRIPTION
	Transistors				Transistors		
Q5001,Q5002	2210755,	*	2SC1775A-E,	Q5641,Q5642	2212115,		2SC2458-GR,
Q5101,Q5102	2210756,	*	2SC1775A-F,		2213284 or		2SC1740S-R or
Q5201,Q5202	2211732 or	*	2SC1845-F or		2215864	NP	KTC3199-GR
Q5301,Q5302	2211733	*	2SC1845-E	Q5643	2213640,		DTC123JS,
Q5003,Q5103	2210755,		2SC1775A-E,	C	2214660 or		RN1205 or
Q5203,Q5303	2210756,		2SC1775A-F,		2215830	NP	KRC105M
Q5403	2211732 or		2SC1845-F or	Q5646	2211792 or		2SA992-F or
Q5644,Q5645	2211733		2SC1845-E	Q5040	2211792 01		2SA992-E
Q5004,Q5104	2212115,		2SC2458-GR,	D5001,D5101	223163 or		1SS133 or
Q5204,Q5304	2213284 or		2SC1740S-R or	D5201,D5301	223205		1SS270A
O5404	2215864	ND	KTC3199-GR	D5401	223263 or		1SS133 or
Q5005-Q5007	2211353,	141	28A949-O,	D5601-D5607	223205		1SS270A
Q5105-Q5107	2211353,		2SA949-Y,	D5608	224471303		
Q5205-Q5207	2211334, 2215843 or	NID	KTA1024-O or	D5643,D5644	223163 or		MTZJ13C,Zener
Q3203-Q3207	2215844		KTA1024-0 01	D3043,D3044			1SS133 or
Q5008,Q5108	2211633,	141	2SC2229-O,	D\$647	223205		1SS270A
Q5208	2211633,		2SC2229-Y,	D5647	224470512		MTZJ5.1B,Zener
Q3208		MD	KTC3206-O or	I 5201 I 5201	Coils		ELIZO DETIL
	2215853 or			L5201,L5301	231176		S-1.3C <p t="" w=""></p>
05200	2215854	NP			Capacitors		
Q5209	2213284		2SC1740S-R	C5001,C5101	393884707		47 μ F,50V,Elect.
Q5210,Q5310	2213354 or		2SA933S-R or	C5004,C5104	354742219		220 μ F,16V,Elect.
	2215975	NP	KTA1266-GR	C5005,C5105	354722219		220 μ F,6.3 V,Elect.
Q5212	2211353,		2SA949-O,	C5010,C5110	354781009		10 μ F,50V,Elect.
	2211354 or		2SA949-Y or	C5017,C5018	354774709		47 μ F,63 V,Elect.
	2215843		KTA1024-O	C5117,C5118	354774709		47 μ F,63V,Elect.
Q5213,Q5313	2203010 or	*	2SC5171 or	C5201,C5301	354784709		47 μ F,50V,Elect.
	2203434	NP	KTD2061-Y	C5204,C5304	354742219		220 μ F,16V,Elect.
Q5214,Q5314	2203000 or	*	2SA1930 or	C5205,C5305	354722219		220 μ F,6.3V,Elect.
	2203424	NP	KTB1369-Y	C5210,C5212	354781009		10 μ F,50V,Elect.
Q5215,Q5315	2202843,	*	2SC5242-O,	C5213,C5313	374721034		0.01 µ F±5%,50V,Plastic
	2202842,	*	2SC5242-R,	C5214,C5314	374724734		0.047 μ F±5%,50V,Plastic
	2201653,	*	2SC3856-O,	C5215-C5218	354774709		47 μ F,63V,Elect.
	2201655 or	*	2SC3856-P or	C5310,C5312	354781009		10 μ F,50V,Elect.
	2201654	*	2SC3856-Y	C5315-C5318	354774709		47 μ F,63V,Elect.
Q5216,Q5316	2202833,	*	2SA1962-O,	C5401	393884707		47 μ F,50V,Elect.
	2202832,	*	2SA1962-R,	C5404	354742219		220 μ F,16V,Elect.
	2201663,	*	2SA1492-O,	C5405,C5645	354722219		220 μ F,6.3V,Elect.
	2201665 or	*	2SA1492-P or	C5410	354781009		10 μ F,50V,Elect.
	2201664	*	2SA1492-Y	C5417,C5418	354774709		47 μ F,63V,Elect.
Q5217,Q5317	2214984 or		2SC2631-R or	C5601-C5603	354761019		100 μ F,35V,Elect.
	2214985		2SC2631-S	C5646	354741009		10 μ F,16V,Elect.
Q5219,Q5319	2212863 or		2SC3419-O or	C5650	354780109		1 μ F,50V,Elect.
	2212864		2SC3419-Y		Resistors		
Q5305-Q5307	2211353,		2SA949-O,	R5014,R5015	443521014		100 Ω±5%,1/2W,Metal oxide
Q5405-Q5407	2211354,		2SA949-Y,	R5017,R5117	443526804		$68 \Omega \pm 5\%$, 1/2W, Metal oxide
	2215843 ог	NP	KTA1024-O or	R5018,R5019	443521014		100 Ω±5%,1/2W,Metal oxide
	2215844	NP	KTA1024-Y	R5114,R5115	443521014		100 Ω±5%,1/2W,Metal oxide
Q5308	2211633,		2SC2229-O,	R5118,R5119	443521014		$100 \Omega \pm 5\%$, $1/2W$, Metal oxide
Q5408	2211634 or		2SC2229-Y or	R5214,R5215	443521014		$100 \Omega \pm 5\%$, 1/2W, Metal oxide
	2215853	NP	KTC3206-O	R5217,R5317	443526804		68 Ω±5%, 1/2W, Metal oxide
Q5309	2213284		2SC1740S-R	R5218,R5219	443521014		$100 \Omega \pm 5\%$, 1/2W, Metal oxide
Q5401,Q5402	2210755,	*	2SC1775A-E,	R5222,R5322	5210290		N06HR4.7KBE,Trimming
	2210756,	*	2SC1775A-F,	R5226	443524714		470 Ω±5%,1/2W,Metal oxide
	2211732 ог	*	2SC1845-F or	R5229,R5329	443521514		150 Ω±5%,1/2W,Metal oxide
	2211733	*	2SC1845-E	R5230,R5231	453530224		$2.2 \Omega \pm 5\%, 1/2W, Metal$
Q5601	2212445		2SK365-GR	R5232,R5332	4000132 or		0.22 Ω *2,5.5W or
Q5602-Q5604	2212115,		2SC2458-GR,		4500245		0.22 Q *2,5.5W,Metal plate
•	2213284 or		2SC1740S-R or	R5240,R5340	453630824		8.2 Ω±5%,1W,Metal
	2215864	NP	KTC3199-GR	R5241,R5242	453530224		2.2 Ω±5%,1/2W,Metal
Q5605,Q5606	221282,		DTC144ES,	R5314,R5315	443521014		100 Ω±5%,1/2W,Metal oxide
- · •	2213560 or		RN1204 or	R5318,R5319	443521014		$100 \Omega \pm 5\%$, 1/2W, Metal oxide
	2215820	NP	KRC104M	R5330,R5331	453530224		$2.2 \Omega \pm 5\%, 1/2 W, Metal$
Q5607	2202115 or		2SD2061-E or	R5341,R5342	453530224		$2.2 \Omega \pm 5\%, 1/2 W, Metal$
	2202116		2SD2061-F	R5414,R5415	443521014		100 Ω ±5%,1/2W,Metal oxide
				·			. ,

CAUTION: Replacement of the transistor of mark *, if necessary, must be made from the same beta group (HFE) as the original type.

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors			Capacitors	
R5417	443526804	68 Ω±5%, 1/2W, Metal oxide	C5423	354781009	10 μ F,50V,Elect.
R5418,R5419	443521014	100 Ω±5%,1/2W,Metal oxide	C5623,C5624	3504353	15000 μ F,63V,Elect.
R5643,R5644	453530224	2.2 Q±5%,1/2W,Metal	D. 4.4.4.	Resistors	
	Relays		R5022,R5122	5210261	N06HR5KBC, Trimming
RL5643,RL5644	25065517,	NRL-2P5A-DC24-098,	R5029,R5129	443521514	150 Ω±5%,1/2W,Metal oxide
	25065563 or	NRL-2P5A-DC24-129 or	R5030,R5031	453530224	2.2 Q±5%,1/2W,Metal
	25065586	NRL-2P5A-DC24-142	R5032,R5132	4000132 or	0.22 Ω *2,5.5W or
W 6400D	Plugs	NIDL CLEDGOO	R5432	4500245	0.22 Ω *2,5.5W,Metal plate
JL5623B	25055628	NPLG-7P590	R5040	453630824	8.2 Ω±5%,1W,Metal
P5201,P5301	25055038	NPLG-2P29	R5130,R5131	453530224	2.2 Ω±5%,1/2W,Metal
P5638	25055099	NPLG-2P83	R5140,R5440	453630824	8.2 Ω±5%,1W,Metal
P5641,P5642	25055038	NPLG-2P29	R5422	5210261	N06HR5KBC, Trimming
II 6622D	Sockets	NECT TROO	R5429	443521514	150 Ω±5%,1/2W,Metal oxide
Д.5622B	25050271	NSCT-7P99	R5430,R5431	453530224	2.2 Ω±5%,1/2W,Metal
Л.5624B	25050267	NSCT-3P95	DI 5641	Relays	NRI 2054 DC24 120
JL5625A	25051088 200B3381830UL	NSCT-4P875	RL5641	25065563,	NRL-2P5A-DC24-129,
P3011A P5002B,P5402B		NSAS-18P0729		25065517 or	NRL-2P5A-DC24-098 or
,	25051426	NSCT-4P1213	DI 5642	25065586 25065574	NRL-2P5A-DC24-142
P5102B	25051427 25051428	NSCT-5P1214	RL5642		NRL-1P5A-DC24-134
P5633B P5634A	2009990550UL	NSCT-6P1215	D6001 D6101	Plugs	NDLC 2D20
P3034A		NSAS-8P0727	P5001,P5101	25055038 25055783	NPLG-2P29 NPLG-4P739
D5611	Clamp 260224	CD 16	P5002A,P5402A P5102A		
P5611	260224	CP-1S		25055784	NPLG-5P740
EDON'T/CENTE	D DOWED AMDI	IEIED DC DOADD	P5401	25055038	NPLG-2P29 NPLG-6P741
		IFIER PC BOARD	P5633A	25055785 Sockets	NPLG-61'741
(NAAF-6601-3A CIRCUIT NO.	PART NO.	DESCRIPTION	JL5621A	25051110	NSCT 40007
circuit no.	Transistors	DESCRIPTION	JL5621A JL5622A	25051111	NSCT-6P897 NSCT-7P898
Q5009	2213284	2SC1740S-R	JL5624A	25051117	NSCT-7F896 NSCT-3P894
Q5010,Q5110	2213254 or	2SA933S-R or	P5631A	2009990549UL	NSAS-12P0726
Q5410		KTA1266-GR	P5635A	2009990549UL	NSAS-4P0728
Q5013,Q5113	2203010 or *	2SC5171 or	1 3033A	20099903310L	N3A3-11 0128
Q5413		KTD2061-Y	THEDMAI DET	TECTOD DC BOAE	RD (NAETC-6602-3A/3B)
Q5014,Q5114	2203000 or *	2SA1930 or	CIRCUIT NO.	PART NO.	DESCRIPTION
Q5414		KTB1369-Y	R5613	4000150	PTH9M04BC222TS2F333,Thermistor
Q5015,Q5115	2202843, *	2SC5242-O,	R5614	4000150	PTH9M04BF222TS2F333,Thermister
Q5415	2202842, *	2SC5242-R,	JL5625B	25051088	NSCT-4P875,Socket
Q5415	2201653, *	2SC3856-O,	3E3023B	25051000	11001-41 515,500ket
	2201655 or *	2SC3856-P or	SECONDARY C	IRCUIT PC BOAR	RD (NAETC-6606-3A/3B)
	2201654 *	2SC3856-Y	CIRCUIT NO.	PART NO.	DESCRIPTION
Q5016,Q5116	2202833, *	2SA1962-O,	C941,C942	374731044	0.1 μ F±5%,100V,Plastic capacitor
Q5416	2202832, *	2SA1962-R,	R941,R942	453530104	1 Ω±5%,1/2W,Metal resistor
C	2201663, *	2SA1492-O,	JL5621B	25051110	NSCT-6P897,Socket
	2201665 or *	2SA1492-P or	Л.942B	25050286	NSCT-9P114,Socket
	2201664 *	2SA1492-Y	P5612	260224	CP-1S,Clamp
Q5017,Q5117	2214984 or	2SC2631-R or			, ·
Q5417	2214985	2SC2631-S	DSP CIRCUIT P	C BOARD (NADG	-6608-3A/3B)
Q5019,Q5119	2212863 or *	2SC3419-O or	CIRCUIT NO.	PART NO.	DESCRIPTION
Q5419	2212864 *	2SC3419-Y		ICs	
Q5109,Q5409	2213284	2SC1740S-R	Q1002	22241416	LC7824
	Diodes		Q101,Q102	22241383R2	NJM4565M-D
D5621	22380273	RS804M	Q103	22241361R2	AK5383VS
D5641,D5642	223163 or	1SS133 or	Q104	22274157ER2TO	TC74VHC157FT
D5645,D5646	223205	1SS270A	Q114	22241338R2	AK4110VF
	Coils		Q115	222740046R2TO	TC74HCU04F
L5001,L5101	231176	S-1.3C <p t="" w=""></p>	Q701	22241358R9	CS492505-CL
L5401	231176	S-1.3C <p t="" w=""></p>	Q705	22274125ER2TO	TC74VHC125FT
	Capacitors		Q707	22241340R9	CS492604-CL
C5012,C5112	354781009	10 μ F,50V,Elect.	Q708,Q709	22274574ER2TO	TC74VHC574FT
C5013,C5113	374721034	0.01 µ F±5%,50V,Plastic	Q710	22241415R2	LC372100PF10-K34-TLM
C5014,C5114	374724734	0.047 µ F±5%,50V,Plastic	Q711	22274157ER2TO	TC74VHC157FT
C5023,C5123	354781009	10 μ F,50V,Elect.	Q713	22274244ER2TO	TC74VHC244FT
C5412	354781009	10 μ F,50V,Elect.	•	22274153ER2TO	TC74VHC153FT
C5413	374721034	0.01 μ F±5%,50V,Plastic	Q801-Q803	22241360R2	AK4393VF
C5414	374724734	0.047μ F±5%,50V,Plastic	Q813-Q815	22241409R2	BA15532F

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CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
	Photo couplers			Relay	
U1003,U1004	24120037	TORX178A	RL901	25065584, 🛕	NRL-1P10A-DC12-140,
X101	Crystal 3010320	AT-49 12.288MHz		25065248, <u>A</u> 25065516 or <u>A</u>	NRL-1P15A-DC12-29,
11101	Diodes	711-47 12.200MIL		25065588	NRL-1P10A-DC12-097 or NRL-1P10A-DC12-143 <d w=""></d>
D1002,D1003	224490330R2	UDZ3.3B		25065561, 🛕	NRL-1P5A-DC12-127,
D101-D112	223234R2 or	1SS352 or		25065508, 🛕	NRL-1P10A-DC12-093,
D701,D702	223233R1	1SS355		25065515 or 🛕	NRL-1P5A-DC12-096 or
7 1001 7 1002	Coils			25065526 🛕	NRL-1P5A-DC12-102 <p a="" t=""></p>
L1001-L1003 L101	231237M022R2 231237M022R2	NCH-1471	6001	Switch	VIII
L101	231237M022R2 230921R2	NCH-1471 BLM21B222SPT	S901	25065437 A	NSS-22157P <w></w>
L108-L110	231237M022R2	NCH-1471	F911,F912	25052133 A	NSCT-1P2031 <d w=""></d>
L701,L702	231237M022R2	NCH-1471 <p a="" t="" w=""></p>	F915,F916	25052133	NSCT-1P2031 <p a="" t="" w=""></p>
L703-L705	231237M022R2	NCH-1471	F917,F918	25052133	NSCT-1P2031 <p t=""></p>
L801,L802	231237M022R2	NCH-1471		Label	
R117,R118	230948R2	BLM21A102F	F902a	29361938	Fuse <p a="" t="" w=""></p>
R122,R125	230921R2	BLM21B222SPT		Plug	
R127,R131	230921R2	BLM21B222SPT	P901a	25055675	NPLG-2P631
R797,R798	230948R2	BLM21A102F		Sockets	
C1005	Capacitors	47 E 4 2W Elana	ЛL9051b	25050267	NSCT-3P95
C1003 C101,C102	356724709R2 356724709R2	47 μ F,6.3V,Elect. 47 μ F,6.3V,Elect.	P902	25051126	NSCT-4P913 <d></d>
C107-C110	356741009R2	10 μ F,16V,Elect.		25051125 <u>A</u> Fuses	NSCT-4P912 <p t="" w=""></p>
C118	356724709R1	47 μ F,6.3V,Elect.	F902	252244 or △	5A-SE-TL250Vor
C120,C148	356724709R2	47 μ F,6.3 V, Elect.	1302	252078	5A-SE-EAKFuse <p a="" r="" t="" w=""></p>
C158	356724709R2	47 μ F,6.3V,Elect.	F903	252241 or 🛆	2.5A-SE-TL250Vor
C719	356721019R2	100 μ F,6.3V,Elect.		252075 ⚠	2.5A-SE-EAKFuse <p t=""></p>
C734,C735	356724709R1	47 μ F,6.3V,Elect. <p a="" t="" w=""></p>	F904	252199	10A-UL,Fuse <d r="" w=""></d>
C737,C738	356724709R2	47 μ F,6.3 V, Elect.			
C742	356724709R2	47 μ F,6.3V,Elect.			AAF-6611-3A/3B/3C/3D)
C801-C803	356724709R2	47 μ F,6.3V,Elect.	CIRCUIT NO.	PART NO.	DESCRIPTION
C814,C816 C818,C820	356724709R2 356724709R2	47 μ F,6.3V,Elect.	0201	ICs	TC000 111 000
C821,C823	356724709R2 356724709R2	47 μ F,6.3 V,Elect. 47 μ F,6.3 V,Elect.	Q301 Q302	22240829	TC9274N-008
C825,C827	356724709R2	47 μ F,6.3 V, Elect.	Q302 Q311	22240799 22240191	TC9163AN NJM4565D-D
C831,C832	356741009R2	10 μ F,16V,Elect.	Q311	Capacitors	NJM4303D-D
C841-C844	356741009R2	10 μ F,16V,Elect.	C341,C343	354744709	47 μ F,16V,Elect.
	Terminals		C344,C346	354744709	47 μ F,16V,Elect.
P1001,P1002	25045473	NPJ-1PDBL291	C349,C351	353744709	47 μ F,16V,Elect.
	Sockets		C353,C354	393884707	47 μ F,50V,Elect.
P701	25051442	NSCT-20P1229	C357,C358	393884707	47 μ F,50V,Elect.
P702,P801	25051438	NSCT-16P1225		Sockets	
P803	25051430	NSCT-8P1217	P301b	25051438	NSCT-16P1225
PRIMARY CIRC	CUIT PC BOARD (NAPS-6610-3A/3B/3C/3D)	Р302Ь	25051429	NSCT-7P1216
CIRCUIT NO.	PART NO.	DESCRIPTION	Р303Ь	Plug 25055234	NPLG-3P218
	Transistor			Terminals	
Q921	2213640 or	DTC123JS or	P304,P305	25045571 or	NPJ-6PDRW386 or
	2215830 NP	KRC105M		25045300	NPJ-6PDBL159
	Diodes		P307	25045575 or	NPJ-4PDRW389 or
D921-D924	22380035,	GP104003E,		25045303	NPJ-4PDBL162
	22380032 or	1SR139-100 or			
D925	22380260 223163 or	RL1N4003 1SS133 or			DARD (NAETC-6612-3A/3B/3C/3D)
D723	223205	1SS270A	CIRCUIT NO. P212	PART NO.	DESCRIPTION NECT ADIZAGE COLOR
	Power transforme		P212 P213	25051961 25045405	NSCT-4P1748,Socket NPJ-3PDBL230,Terminal
T902	2300670A	NPT-1111D <d></d>	P204a	2009990434UL	NSAS-10P0578,Socket
	2300671A 🛕	NPT-1111P <p a="" t=""></p>	P303a	2009990513UL	NSAS-6P0675,Socket
	2300672A 🗘	NPT-1111DG <w></w>			
	Capacitors				
C901	3500196S	RE275V-103M			
C922	354742219	220 μ F, 16 V, Elect.			
R901	Resistors	DCI/OCEVIT 2 234 0 - F1 - F5			
R921	431533355 <u>A</u> 453530824	RC1/2GFKUL-3.3M,Solid <d> 8.2 Ω±5%,1/2W,Metal</d>			
	.55550027	0.2 se ±0 /0, 1/2 W ,1VICIAI			

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	RONT B SPEAKE BA/3B/3C/3D)	R TERMINAL PC BOARD	CIRCUIT NO.	PART NO. Resistor	DESCRIPTION
CIRCUIT NO.	PART NO. Capacitors	DESCRIPTION	R8542	49163103415 Switches	RM1/10IJ-10K*15,Array
C5219,C5221	374721034	0.01 μ F±5%,50V,Plastic <p a="" t="" w=""></p>	S8501-S8531	25035652	NPS-111-S604,Push
C5261,C5262	374724734	0.047μ F±5%,50V,Plastic	S8532	25065507	EC11B15244,Rotary
C5319,C5321	374721034	$0.01 \mu \text{ F} \pm 5\%,50 \text{ V, Plastic } < P/T/W/A>$	50552	Sockets	LC11D13244,Rotary
C5361,C5362	374724734	0.047μ F±5%,50V,Plastic	ЛL8501A	25051109	NSCT-5P896
	Resistors		JL8502A	25051107	NSCT-3P894
R5261,R5262	453630824	8.2 Ω ±5%, 1 W, Metal	P8501	25052071,	NSCT-25P1858,
R5361,R5362	453630824	8.2 Ω±5%,1W,Metal		25050965,	NSCT-25P752,
	Terminal	, ,		25051329,	NSCT-25P1118,
P5636	25060292	NTM-8PDMN223		25051869 or	NSCT-25P1656 or
	Plugs	,		25052258	NSCT-25P2155
P5634b	25055167	NPLG-4P151		Holder	
P5635b	25055165	NPLG-2P149	Q8501A	27191074	(FL)
		RMINAL PC BOARD			D (NAVD-6622-3A/3B)
(NAETC-6615-3	•	PEGGPYPMYON	CIRCUIT NO.	PART NO.	DESCRIPTION
CIRCUIT NO.	PART NO.	DESCRIPTION	0016 00	ICs	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
CENTO CELLO	Capacitors	0.01 F. 60. 6017 PL	Q215-Q218	22241347	NJM2296D
C5019,C5119	374721034	0.01μ F±5%,50V,Plastic <p a="" t="" w=""></p>	Q219	22240800	TC9164AN
C5061,C5161	374724734	0.047 μ F±5%,50V,Plastic		Transistors	
C5419	374721034	$0.01 \mu \text{ F} \pm 5\%,50 \text{V,Plastic} < P/T/W/A>$	Q201-Q208	2213631 or	RN1241-A or
C5461	374724734	0.047 μ F±5%,50V,Plastic	Q211-Q214	2213632	RN1241-B
R5061,R5161	Resistors	9.20 (50/ 137/) 4 4 1	G222 G222	Capacitors	4 6 0 E 441 E
R5461	453630824	8.2 Ω±5%, lW, Metal	C232,C233	354744719	470 μ F,16V,Elect.
K3461	453630824	8.2 Ω ±5%,1W,Metal	Dagan	Plug	\
P5632	Terminal 25060291	NEW CDDN DIGGG	P202B	25055236	NPLG-5P220
F3032		NTM-6PDMN222	W 2014	Sockets	NOOT areas
P5631b	Plug 25055169	NPLG-6P153	JL201A	25051093	NSCT-9P880
1 30310	23033109	NFLG-0F133	JL202A P201B	25051094	NSCT-10P881
POWER SWITE	TH PC ROARD (N	AETC-6619-3A/3B/3C/3D)	P205,P206	25051428	NSCT-6P1215
CIRCUIT NO.	PART NO.	DESCRIPTION	P207	25051568 25051750	NSCT-12P1355 NSCT-4P1537
C906	3500196S A		1207	23031730	NaC1-4F1337
S906	25035550		ON-SCREEN P	C BOARD (NAVD-	6623.3A/3R)
	20000000	111 20121,5 Witch	CIRCUIT NO.	PART NO.	DESCRIPTION
DISPLAY CIRC	UIT PC BOARD	(NADIS-6621-3A/3B)		lCs	DESCRIPTION
CIRCUIT NO.	PART NO.	DESCRIPTION	Q220	22241037	LC74761-9189
	FL tube		Q223,Q224	22241347	NJM2296D
Q8501	212199	16-BT-66GK	(, (Transistors	
	IC		Q221	2212115,	2SC2458-GR,
Q8503	22240685R9	M66004FP		2213284 or	2SC1740S-R or
	Remote sensor				KTC3199-GR
U8501	241330	PIC-26043TE2	Q222	2212125,	2SA1048-GR
	Transistors			2213354 or	2SA933S-R
Q8502,Q8505	2212115,	2SC2458-GR,		2215975 NF	KTA1266-GR
	2213284 or	2SC1740S-R or	Q225-Q230	2213631 or	RN1241-A or
	2215864 N	P KTC3199-GR		2213632	RN1241-B
Q8504	2213510,	DTA114ES,		Diodes	
	2214350 or	RN2202 or	D213-D215	223163 or	1SS133 or
	2215770 NI	P KRA102M		223205	1SS270A
Q8507	221282,	DTC144ES,		Crystals	
	2213560 or	RN1204 or	X201	3010167	XTL-14.32M
	2215820 NI	P KRC104M	X202	3010238	XTL-17.73M <p t="" w=""></p>
	Diodes			Coils	
		1SS133 or	L201	233454J056	NCH-1452 056J
D8501,D8505	223163 or				
	223205	1SS270A	L202	233454K220	NCH-1452 220K
D8502	223205 225290		L202	233454K220 Capacitors	NCH-1452 220K
D8502	223205	1SS270A	L202 C208,C219		NCH-1452 220K 100 μ F,6.3V,Elect.
D8502 D8504	223205 225290 224470823 Capacitors	1SS270A SEL4110R,LED MTZJ8.2C,Zener		Capacitors	
D8502 D8504 C8515	223205 225290 224470823 Capacitors 354721019	1SS270A SEL4110R,LED	C208,C219 C210,C221 C211	Capacitors 354721019	100 μ F,6.3V,Elect.
D8501,D8505 D8502 D8504 C8515 C8506	223205 225290 224470823 Capacitors 354721019 354741009	1SS270A SEL4110R,LED MTZJ8.2C,Zener 100 \(\mu \) F,6.3V,Elect. 10 \(\mu \) F,16V,Elect.	C208,C219 C210,C221 C211 C214	Capacitors 354721019 375524744	100 μ F,6.3V,Elect. 0.47 μ F±5%,50V,Plastic
D8502 D8504 C8515 C8506 C8518	223205 225290 224470823 Capacitors 354721019 354741009 354780109	1SS270A SEL4110R,LED MTZJ8.2C,Zener 100 μ F,6.3V,Elect. 10 μ F,16V,Elect. 1 μ F,50V,Elect.	C208,C219 C210,C221 C211 C214 C215,C225	Capacitors 354721019 375524744 354784799	100 μ F,6.3V,Elect. 0.47 μ F±5%,50V,Plastic 0.47 μ F,50V,Elect.
D8502 D8504 C8515 C8506	223205 225290 224470823 Capacitors 354721019 354741009	1SS270A SEL4110R,LED MTZJ8.2C,Zener 100 \(\mu \) F,6.3V,Elect. 10 \(\mu \) F,16V,Elect.	C208,C219 C210,C221 C211 C214	Capacitors 354721019 375524744 354784799 374722234	100 μ F,6.3V,Elect. 0.47 μ F±5%,50V,Plastic 0.47 μ F,50V,Elect. 0.022 μ F±5%,50V,Plastic



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			<u> </u>	-	
CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors			Oscillators	
C218	354783399	0.33 µ F,50V,Elect.	X2001	3010203	AF6146CG,Crystal <p></p>
C223,C226	354721019	100 μ F,6.3V,Elect.	X8001	3010322	CST16.00MXW0C1,Ceramic
C224	354724719	470 μ F,6.3V,Elect.		Capacitors	
C227	354744709	47 μ F,16V,Elect.	C2001	354784799	$0.47 \mu \text{ F,50V,Elect.}$
C230,C231	354744719	470 μ F,16V,Elect.	C2002	354780339	3.3 μ F,50V,Elect.
,	Terminals	,,	C2006,C2008	354721019	100 μ F,6.3V,Elect. <p></p>
P209	25045339	NPJ-4PDYE190	C2007	374725614	560pF±5%,50V,Plastic <p></p>
P210	25045299	NPJ-3PDYE158	C2012,C2013	374721824	1800pF±5%,50V,Plastic <w></w>
1210	Switch	N13-31 D12136	C6071,C6171	354741009	10 μ F,16V,Elect.
S201	25065581	NSS-22203	C6072,C6172	354721019	100 μ F,6.3 V,Elect.
3201	Sockets	N33-22203	C6073-C6075	354741009	10 μ F,16V,Elect.
JL201В	25051093	NECT OPERA	C6173,C6175	354741009	10 μ F,16V,Elect.
		NSCT-9P880	C8001,C8002	354741009	10 μ F,6.3 V, Elect.
JL202B	25051094	NSCT-10P881	•		
P203B	25051431	NSCT-9P1218	C8003	354780109	1 μ F,50V,Elect.
			C8007	3000078	DX-5R5L104,Super
		OARD (NAETC-6624-3A/3B)	C8008	375524744	0.47 μ F±5%,50V,Plastic
CIRCUIT NO.	PART NO.	DESCRIPTION	C8011	354780339	$3.3 \mu F,50V,Elect.$
Л L85 01В	25051109	NSCT-5P896,Socket	C8013	354741009	10μ F,16V,Elect.
P8502	25045514	YKB26-5005,Headphone	C9053	354744729	4700 μ F,16V,Elect.
			C9054	354741029	$1000 \mu \text{ F}, 16\text{V}, \text{Elect}.$
MAIN VOLUM	E PC BOARD (NA	ETC-6625-3A/3B)	C9056	354724719	470 μ F,6.3V,Elect.
CIRCUIT NO.	PART NO.	DESCRIPTION	C9058,C9060	354741009	10 μ F,16V,Elect.
JL8502B	25051107	NSCT-3P894,Socket	C9062,C9064	354741009	10 μ F,16V,Elect.
S8533	25065575	EC16B2425,Rotary encoder	C9063	354780229	2.2μ F,50V,Elect.
			C9065	354762229	2200 μ F,35V,Elect.
MAIN CIRCUI	T PC BOARD (NA	AR-6627-3A/3B/3C/3D)	C9066	354761029	1000 μ F,35V,Elect.
CIRCUIT NO.	PART NO.	DESCRIPTION	C9068,C9070	354741009	10 μ F,16V,Elect.
	ICs		C9069	354780229	2.2μ F,50V,Elect.
Q2005	22241297R2	BU1923F <p></p>	C9071	354781019	100 μ F,50V,Elect.
Q6075	22240191	NJM4565D-D	C9072	354771019	100 μ F,63 V,Elect.
Q8003	22241420	M30624MG-238FP	C9076	354742229	2200 μ F,16V,Elect.
Q9051	22278033DNEC	MPC2933HF	C9078,C9080	354741009	10 μ F,16V,Elect.
Q9052-Q9054	222780055	78M05HF		Resistors	
Q9055	222790055	79M05FA	R6078,R6178	453530224	$2.2 \Omega \pm 5\%, 1/2W, Metal$
Q9056,Q9057	222780125	78M12HF	R9051,R9052	452638294	0.82 Ω ±5%,1 W, Metal
Q9059	222780565JRC	NJM78M56FA	R9053	452630154	$1.5 \Omega \pm 5\%, 1W, Metal$
Q9060	222780055	78M05HF	R9054	452630154	1.5 Ω ±5%,1W,Metal
	Transistors		R9055	452630334	3.3 Q ±5%,1W,Metal
Q2001,Q2002	2215410R2	RN1441	R9056	452530334	$3.3 \Omega \pm 5\%, 1/2W, Metal$
Q2003	2214530R2	RN2402	R9057	452530104	1 Ω ±5%,1/2W,Metal
Q2004	2213143R2	2SC2712-O <p></p>	R9058,R9059	452630474	4.7 Ω ±5%,1W,Metal
Q6071,Q6072	2215410R2	RN1441	R9060,R9066	452530474	4.7 Ω ±5%,1/2W,Metal
Q6073	2214530R2	RN2402	R9061,R9062	452530824	$8.2 \Omega \pm 5\%, 1/2W, Metal$
Q6074,Q8001	2214490R2	RN1404	R9065	453530224	2.2 Ω ±5%,1/2W,Metal
Q6171,Q6172	2215410R2	RN1441	R9067,R9068	442621014	100 Ω ±5%,1W, Metal oxide
Q8002,Q8102	2214530R2	RN2402	R9069	442521204	12 Ω±5%, 1/2W, Metal oxide
Q8101,Q8103	2214490R2	RN1404	10.007	Fuse labels	
Q9058	2211455	2SA1015-GR	F941A,F942A	29361747	T2.5AL250V <p a="" t="" w=""></p>
Ç	Diodes			Fuse holders	
D8001	22380260,	RL1N4003,	F943-F946	25052133	⚠ NSCT-1P2031
D9052-D9057	22380032 or	1SR139-100 or	15151510	Sockets	25 1.001 11.2011
D9059-D9061	22380035	GP104003E	ЛL5623A	25051091	NSCT-7P878
D8002	223234R2 or	1SS352 or	ЛL9051A	25051107	NSCT-3P894
D804-D806	223234R2 GI	1SS355	JL942A	25051113	NSCT-9P900
D8003,D8007	224490560R2	UDZ5.6B,Zener	3274271	Plugs	11501 71700
			P201A	-	NDI G 60741
D8101,D8102	223234R2 or	1SS352 or		25055785	NPLG-6P741
Doost	223233R1	1SS355	P203A	25055788	NPLG-9P744 NPLG-20P755
D9051	22380022F	RBV402	P3012A,P3013A		NPLG-20P755
D9058	224493300R2	UDZ33B,Zener	P301A,P702A	25055795	NPLG-16P751
1 200:	Coils	NOI 1477 -	P302A	25055786	NPLG-7P742
L2001	231237K220R2	NCH-1477 <p></p>	P701A	25055799	NPLG-20P755
L8001	231237K220R2	NCH-1477			
R8034,R8036	230948R2	BLM21A102F			

C3073,C3074

C3079,C3080

C3093,C3094

354784709

354741009

354741009

 47μ F,50V,Elect.

10 μ F,16V,Elect.

10 μ F,16V,Elect.

NOTE: THE COMPONENTS INENTIFIED BY MARK

\(\Delta\) ARE CRITICAL FOR RISK OF FIRE AND
ELECTRIC SHOCK. REPLACE ONLY WITH
PART NUMBER SPECIFIED.

				THE MEDIC OF EC	a abb.
CIRCUIT NO.	PART NO. Plugs	DESCRIPTION	CIRCUIT NO.	PART NO. Capacitors	DESCRIPTION
P8002A	25052024,	NSCT-15P1811,	C3097,C3098	354721019	100 μ F,6.3V,Elect.
	25050955,	NSCT-15P742,	C3251,C3351	374722224	2200pF±5%,50V,Plastic <p a="" t="" w=""></p>
	25051281,	NSCT-15P1070,	C4005,C4105	374721244	0.12μ F±5%,50V,Plastic
	25051822 or	NSCT-15P1609 or	C4006,C4106	374724734	$0.047 \mu \text{ F} \pm 5\%, 50 \text{ V, Plastic}$
	25052211	NSCT-15P2108	C4602,C4604	354741009	10μ F, 16 V, Elect.
P8003A	25055789	NPLG-10P745	C6604	354781009	10 μ F,50V,Elect.
P801A	25055795	NPLG-16P751	C7001,C7002	354784709	47 μ F,50V,Elect.
P803A	25055787	NPLG-8P743	C7003,C7004	354744709	47 μ F,16V,Elect.
1 005/1	Terminals	11 23 01 743	C7011,C7111	354741009	10 μ F,16V,Elect.
P8203	25045504	NPJ-1PDBL319,RI	C7013,C7113	354780229	2.2 μ F,50V,Elect.
P8501A	25052034,	NSCT-25P1821,	C7015,C7024	354784709	47 μ F,50V,Elect.
10501A	25052054,	NSCT-25P752,	C7033,C7034	374721534	0.015μ F±5%,50V,Plastic
	25050903,	·			
	•	NSCT-25P1080,	C7035,C7036	374724724	4700pF±5%,50V,Plastic
	25051832 or	NSCT-25P1619 or	C7039,C7040	374721234	0.012 μ F±5%,50V,Plastic
	25052221	NSCT-25P2118	C7041,C7042	374728234	0.082 \(\mu \) F±5%,50V,Plastic
E0 41 E0 45	Fuses		C7045,C7046	354744709	47 μ F,16V,Elect.
F941,F942	252160		C7051,C7151	374725614	560pF±5%,50V,Plastic <p a="" t="" w=""></p>
	252241 or^		C7115,C7124	354784709	47 μ F,50V,Elect.
	252075 △	2.5A-SE-EAK, Fuse <p a="" t="" w=""></p>	C7201,C7203	354744709	$47 \mu \text{ F}, 16 \text{V}, \text{Elect}.$
	Screws		C7202,C7205	354784709	$47 \mu F,50V,Elect.$
Q9051B,Q9052B		3P+10FN(BC),Pan head	C7204,C7206	354741009	10μ F,16V,Elect.
Q9054B,Q9055B	82143010	3P+10FN(BC),Pan head	C7211,C7311	354741009	10 μ F,16V,Elect.
	Switch		C7213,C7313	354784709	47μ F,50V,Elect.
S2001	25065414	NSS-22155 <w></w>	C7401,C7402	354744709	47 μ F,16V,Elect.
	Heatsinks		C7403,C7404	354784709	47 μ F,50V,Elect.
Q9054A,Q9055A	27160391		C7411,C7511	354741009	10 μ F,16V,Elect.
Q9051A,Q9052A	27160209	RAD-67	C7413,C7513	354780229	2.2 μ F,50V,Elect.
			C7415,C7515	354784709	47μ F,50V,Elect.
PREAMPLIFIE	R PC BOARD (N	AAF-6628-3A/3B/3C/3D)	C7422,C7522	354784709	47μ F,50V,Elect.
CIRCUIT NO.	PART NO.	DESCRIPTION	C7431	374721534	0.015μ F±5%,50V,Plastic
	ICs		C7432	374724724	4700pF±5%,50V,Plastic
Q3051,Q3061	22241383R2	NJM4565M-D	C7434,C7534	374721234	0.012 μ F±5%,50V,Plastic
Q3071,Q3091	22241383R2	NJM4565M-D	C7435	374728234	0.082 \(\mu \) F±5%,50V,Plastic
Q4001,Q4101	22241383R2	NJM4565M-D	C7451,C7551	374722224	2200pF±5%,50V,Plastic <p a="" t="" w=""></p>
Q4201,Q4301	22241383R2	NJM4565M-D	C7524	374722734	0.027 μ F±5%,50V,Plastic
Q4601	22240786	TC9274N-006	C7534	374721234	0.012 μ F±5%,50V,Plastic
Q4602	22241221R2	TC9164AF	C7535	374728234	$0.082 \mu \text{ F} \pm 5\%, 50 \text{ V, Plastic}$
Q7001,Q7201	22241220R2	TC9459F	4 ,555	Terminals	0100 2
Q7011,Q7021	22241383R2	NJM4565M-D	P3051	25045572	NPJ-6PDBRW387
Q7031,Q7431	22241253	TC9184AP	P3052	25045300	NPJ-6PDBL159
Q7041	22240025	LC4966	P7051	25045586	NPJ-4PDBRW397
Q7211	22240023 22241383R2	NJM4565M-D	17031		NI JAI DDKW 397
	22241383R2 22241220R2		P3011B	Plug	NDI C 0D122
Q7401		TC9459F	P3011B	25055139	NPLG-9P123
Q7411,Q7421	22241383R2	NJM4565M-D	D2012D D2012D	Sockets	NOCT AND AND
~~~~	Transistors	53.4.4.4	P3012B,P3013B	25051442	NSCT-20P1229
Q6001-Q6003	2215410R2	RN1441			
Q6101-Q6103	2215410R2	RN1441	NOTE	: <d>: 120V mod</d>	•
Q6201-Q6203	2215410R2	RN1441		<p>: 230V mod</p>	lel only
Q6301-Q6303	2215410R2	RN1441		<t>: Asian mod</t>	lel only
Q6401-Q6403	2215410R2	RN1441		<w>: Worldwid</w>	le model only
Q6501,Q6502	2215410R2	RN1441		<a>: Autralian</a>	model only
Q6601	2214470R2	RN1402			
Q6602	2214550R2	RN2404			
Q6605	2214470R2	RN1402			
	Diodes				
D7201,D7202	224490910R2	UDZ9.1B,Zener			
	Capacitors	•			
C3053,C3054	354784709	47 μ F,50V,Elect.			
C3063,C3064	354784709	47 μ F,50 V,Elect.			
C3067,C3077	374726224	6200pF±5%,50V,Plastic			
C3068,C3078	374720224	1800pF±5%,50V,Plastic			
		•			
C3069,C3070	354741009 354784709	10 μ F,16V,Elect.			
	3 34 / NA / UY	A / U P BUV PLACT			

### ADJUSTMENT AND CONFIRMATION

### 1. Idling current adjustment

Before Idling adjustment, turn the trimming resistors R5022, R5122, R5222, R5322 and R5422 to counter clockwise. Connect the DC voltmeter to sockets P5001, P5101, P5201, P5301 and P5401.

After turn POWER to ON, adjust the trimming resistors R5022, R5122, R5222, R5322 and R5422 so that the reading of voltmeter becomes 1.0 mV.

After adjustment, attach the top cover.

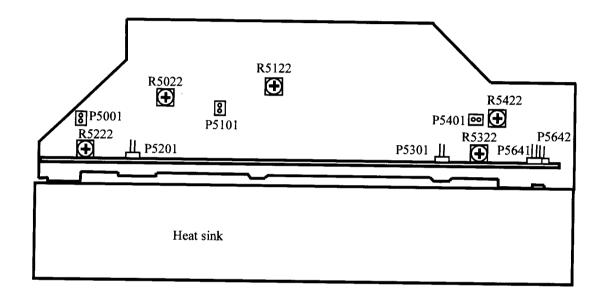
Confirm the voltage of above points after five minutes.

When less than 6 mV, readjust the above resistors so that the voltage becomes 6.0 mV.

When 6 mV to 7.5 mV, you are not necessary to adjust.

When more than 7.5 mV, readjust the above resistors so that the voltage becomes 7.5 mV.

Note: No load and No signal



### Confirmation of protection circuit

### 1. Confirmation of speaker relay

Confirm that the speaker relay turns ON approximate 5 seconds after the power switch is turned ON.

Confirm that the speaker relay turns OFF immediately after the power switch is turned OFF.

### 2. Confirmation of DC detection circuit

Press and hold down CD button, then press SPEAKERS-A and SPEAKERS-B buttons at the same time.

During "TEST-1-00" on the FL tube light on and off, press PRESET/MODE ADJ button.

Apply DC 1.5~3V to MULTI CHANNEL INPUT terminals with no load.

Confirm that the speaker relay turns OFF.

Apply DC -1.5~-3V to MULTI CHANNEL INPUT terminals with no load.

Confirm that the speaker relay turns OFF.

### 3. Confirmation of Current detection circuit

Press and hold down CD button, then press SPEAKERS-A and SPEAKERS-B buttons at the same time.

During "TEST-1-00" on the FL tube light on and off, press PRESET/MODE ADJ button.

Connect Differentiator below and apply the 200Hz square signal to the terminal of MULTI CHANNEL INPUT.

Adjust the attenuator or Volume so that the output level becomes 35V p-p.

Confirm that the speaker relay does not turn OFF when a 3.0 ohm load is connected.

Confirm that the speaker relay turns OFF when a 1.5 ohm load is connected.

### Confirmation of Fan

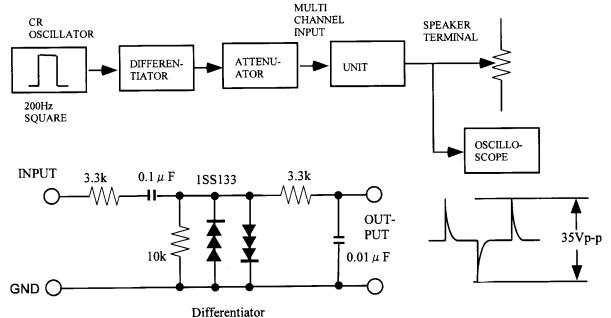
Set the unit to "TEST-1-00" and apply the signal 1kHz, -30dB (32 mV) to Multi channel inputs except Sub Woofer with no load. Confirm that the fan turns after few seconds.

Connect the 22 ohm resistor between terminal P5642 with no input.

Confirm that the fan turns after few seconds.

Confirmation of thermal detection circuit

Set the unit to "TEST-1-00" and connect the 22 ohm resistor between terminal P5641. Confirm that "Thermal Protect" on the fluorescent tube light on.

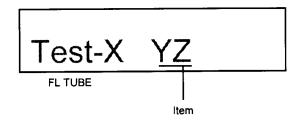


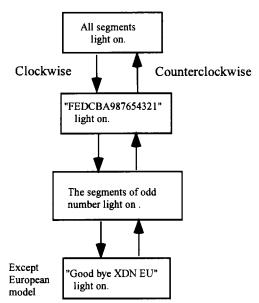
### **Test Mode**

- 1. Turn POWER button on.
- 2. Press and hold down CD button, then press SPEAKERS-A and SPEAKERS-B buttons at the same time.
- 3. During "TEST-1-00" on the FL tube is displayed, press CD button to set the unit to the test mode of FL tube.

Test mode of FL tube

Turn PRESET/MODE ADJ button to change the test mode of FL tube.



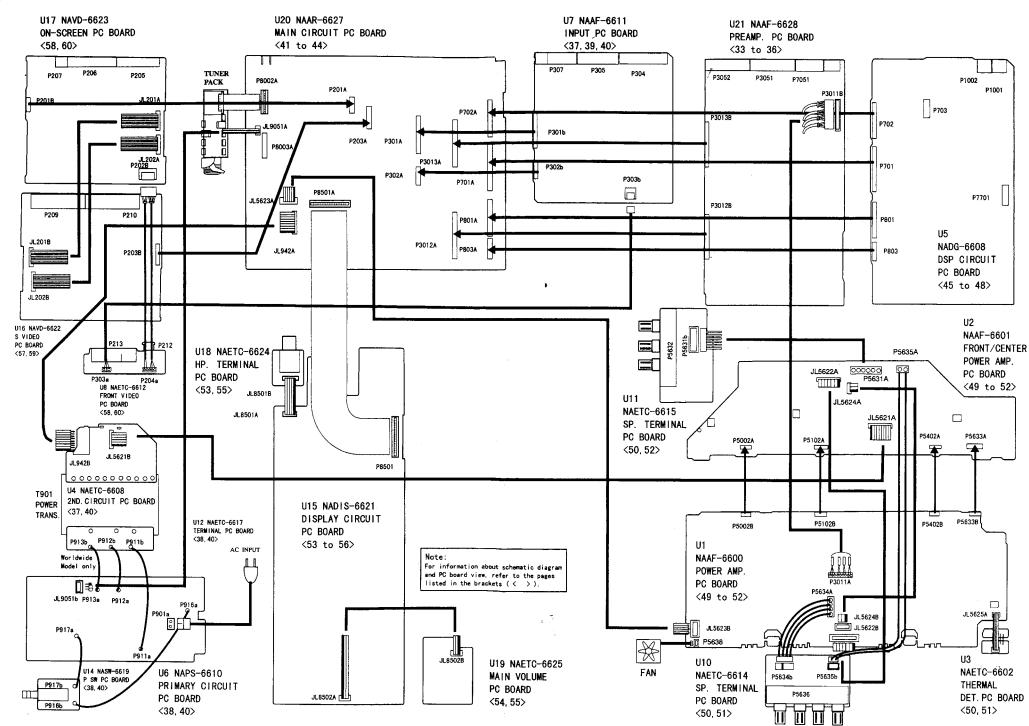


Press PRESET/MODE ADJ button to finish the test mode of FL tube.

XDN EU 123 4

- 1. THX: 1.THX 0:None
- 2. Digital output:1.Yes 0:No
- 3. N: 1.NTSC/PAL: Auto PAL 0: NTSC
- 4. EU:Europe US: USA SA:Saudi JP:Japan

### **RING VIEW**



. RC-202593 0CT., 7th., 1999

В Α С D Ε G EMATIC DIAGRAM 1 04601 TC9274H-006 R4604 R4605 R4607 R4608 R4609 FL MAIN AMP 05015 99.708 05016 05001-5014 05016 BU1922 ROS DECODER 9 STEASOR PASSES 0815 50KUPF____ 04101 0102 008 0101 508 0101 608 C FR-A FL-A VIDEO-3 (2000) IN (2000) IN (2000) IN Q103 AK5393 MUTE. Q801 070 ( CS4925 OSP (MPEG) SML/OL SUR ON 0802 18 8 8 4K4393 LS/L S. OSLAY 20 .508 NUTE 19 SIR. ON 0803 AX 4393 AVRS DAMS SOCIPY 0815 34201 11 818 ΦΦ, 20.508 NUTE CONXIATS (C) 0707 CS4926 OSP F B FELAY AJ301 10 Sún ún RY2 0114 RY3 AK4110 DIR  $\oplus \oplus$ 00, 21 NLT ON 94207 04201 22 SUR ON 2 220HZLPE -), 04001 SS 06601 D 06602 FAN OPERATION 05601-05607 PROTECT 05646 05644, 05645 A.5642 à Ē THERMAL SENSOR R5613, 14 PSOCO 0219 TC9164M MLETI-OUT CONTROLLER OSO CONTROLER CHESTR VIDEO-1 (6 ON HONGTON OUT V10E0-2  $\otimes$ V10E0-1 VIDEO-3 V10E0-2 V10E0-4 VIDEO SW **⊗** 0224 NJN2296 0803 NGG004FP Fl. DRIVER KEY SW 33

S2001 MI FRED, STEP MIT-TYPE ONLY

S-V10E0-1

V10E0 SW ⊗-80⊅-0215 NJM2296

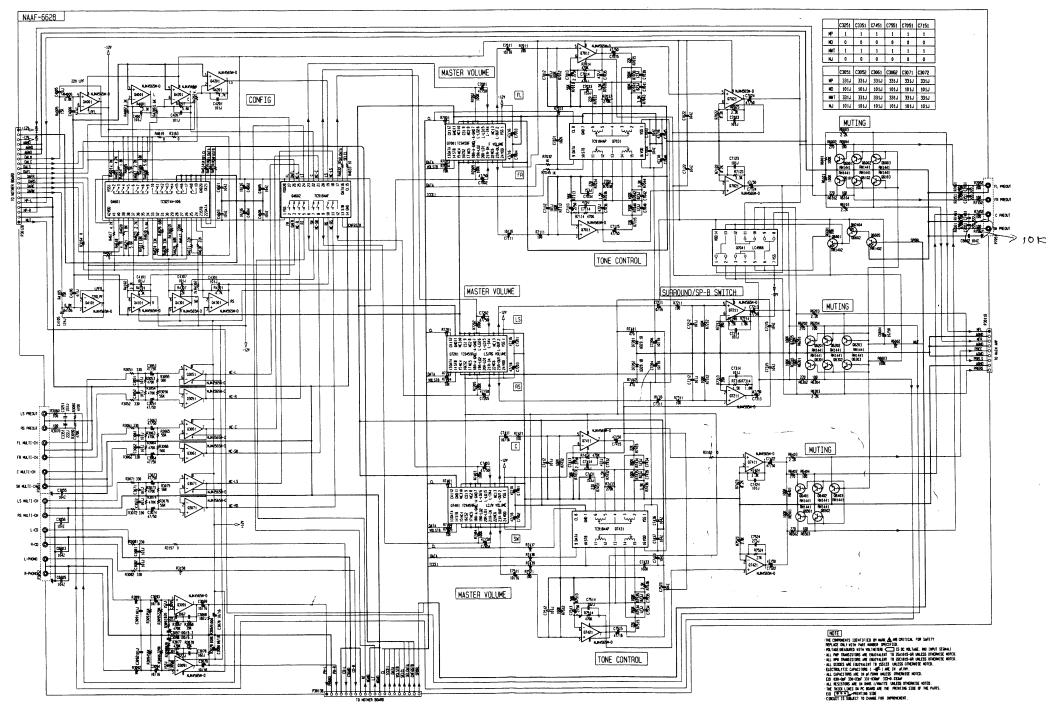
VIDEO SW Ø-80≥ 0216 NJR2296

V10E0 SN ⊗ 800 0217 NJR2296

VIDEO SW ⊗-800> 0218 NJA62796

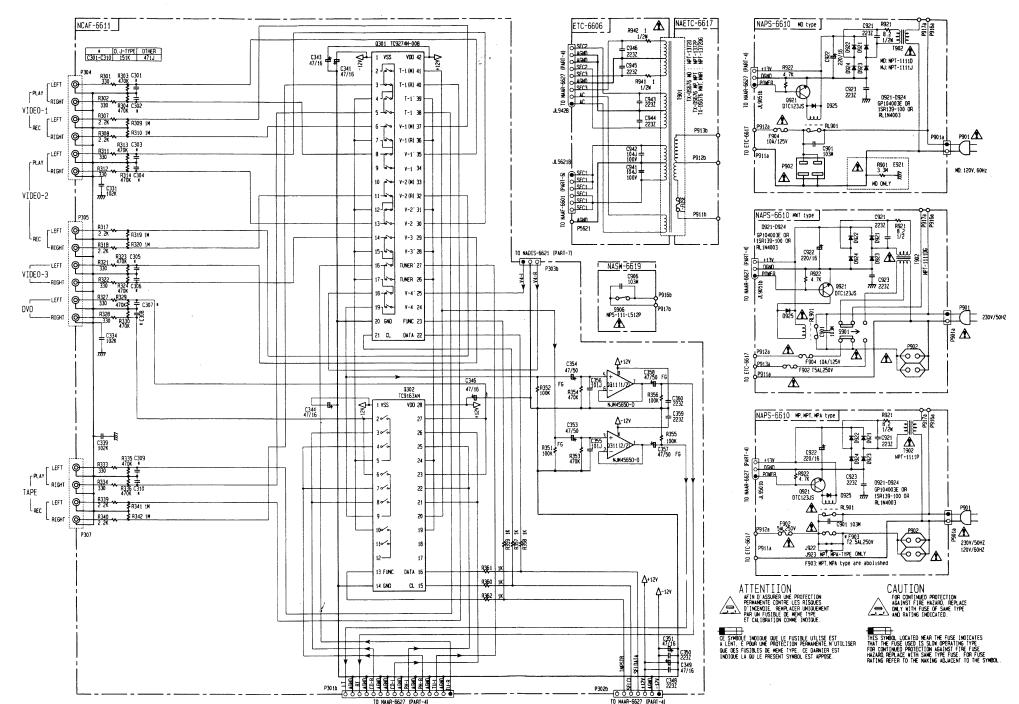
A | B | C | D | E | F | G |

### IEMATIC DIAGRAM 2



A | B | C | D | E | F | G |

### CHEMATIC DIAGRAM 3



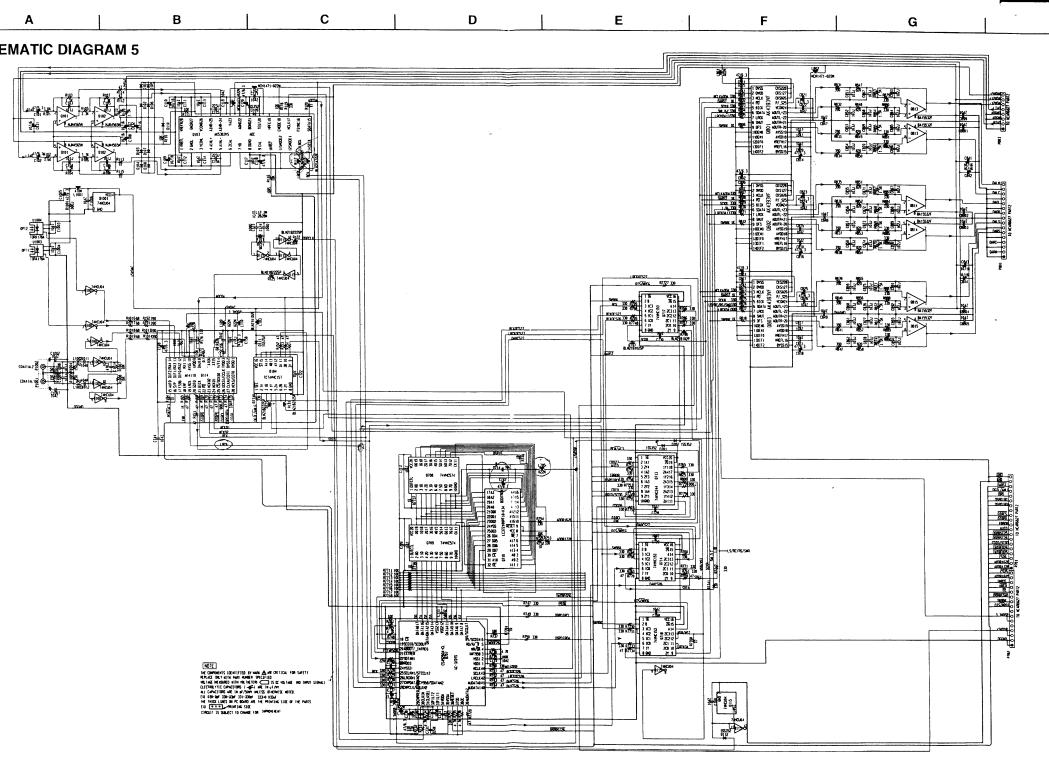
В С D Ε F G CHEMATIC DIAGRAM 4 TO NADG-6608 (Part-5) 0000000000000000 NAAR-6627 HEADPHONE AMP 0 82(19) 82(19) 99051 WFC2933# 1, 1705 \$%₽₽ 1.5 110 1 09052 7890596 C9057 1 032 10716 19053 4700/16 00006 100 155355 5751M 2 100051 **∆** E9051 3.3 (17%) 09054 780956 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 10315 1 FREQ. SW HWT/HWR TYPE 9 SEC 89(58 88(59 78412)F 4.7 (110) 4.7 (110) 1 6 0 2200/35 1032 10/16 8.2 C5971 11/2w1 C5971 100/50 99056 E GP104003E GR RLIM4003 GR AM012 GR RLIM4003 GR AM012 GR AM012 DATA CL DATA RDS GP104003E OR RE 1144003 OR APRO12 003 00 08004 155352 08 0001 08 155355 08 1004  $\mp \Pi$ 

TO MAAF-6600 (Part-6)

TO MAYO-6623 (Part-8) TO MAYO-6622 (Part-8)

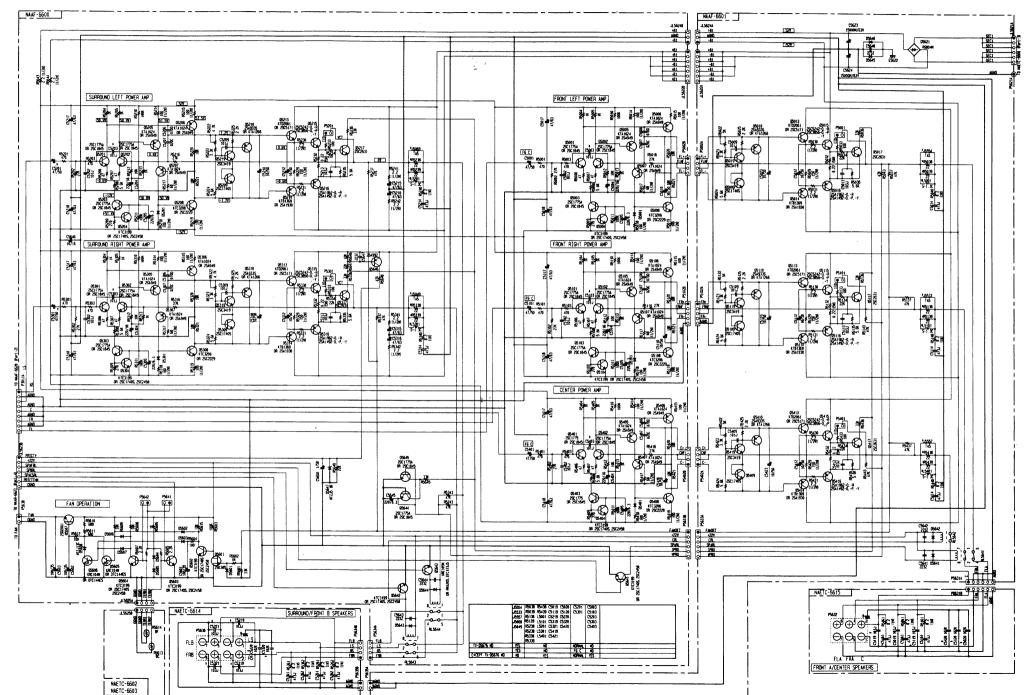
TO TUNER PACK IPart-98

10 MADIS-6621 (Part-7)



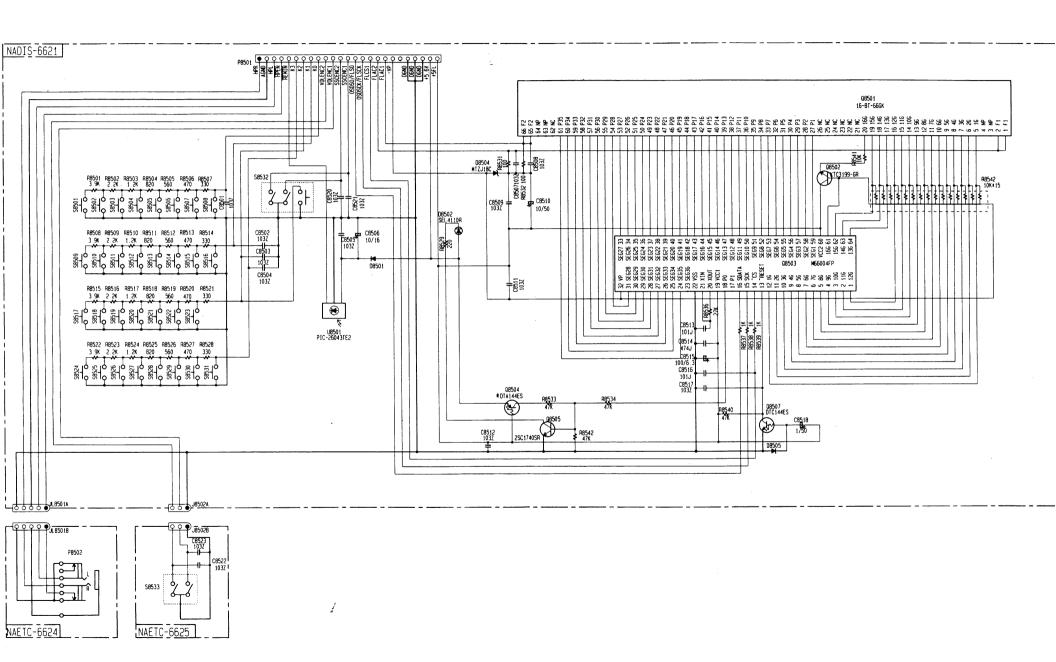
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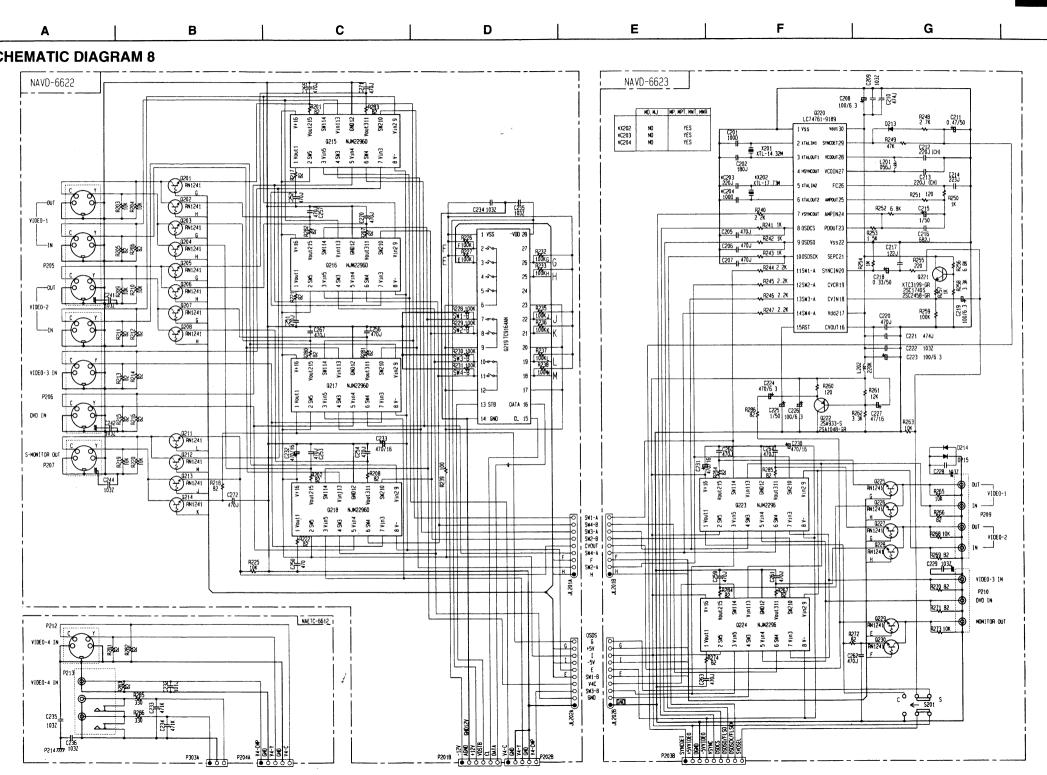
### CHEMATIC DIAGRAM 6



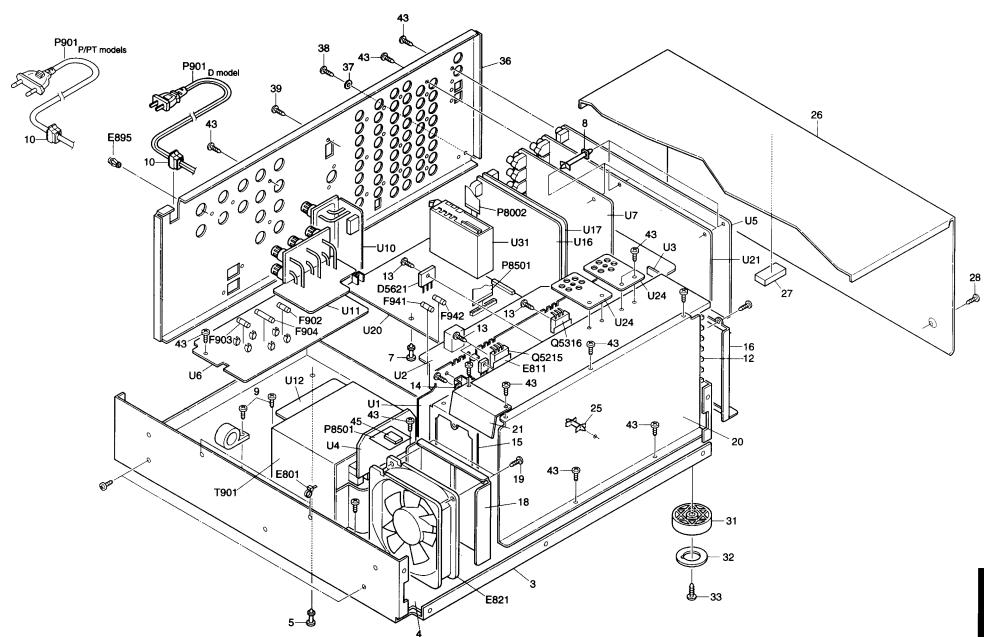
A | B | C | D | E | F | G

### CHEMATIC DIAGRAM 7

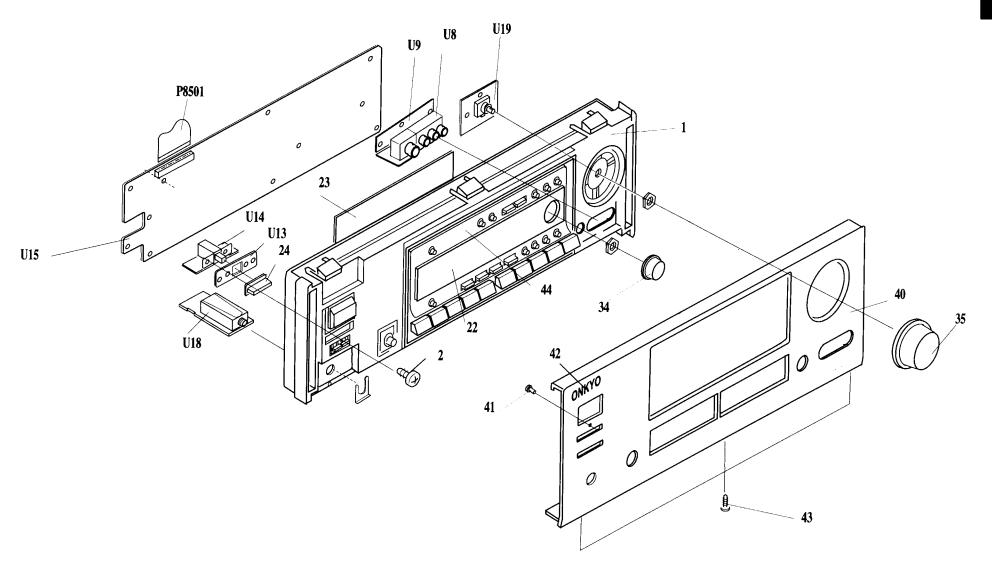




### **EXPLODED VIEW**



TX-DS676



### **PARTS LIST**

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.		DESCRIPTION
1	27111116	Front bracket <b></b>	37	87643010		W3*10F(BC),Flat washer
	27111117	Front bracket <g></g>	38			3TTB+8B(UN),Self-tapping screw
2	82143010	3P+10FN(BC),Pan head screw	39	838430068		3TTB+6B(BC),Self-tapping screw
3	27100373A	Chassis	40	27212119		Front panel <b></b>
4	27130824B	Bracket PT		27212120		Front panel <g></g>
5	27190813	KGPS-10RF,Holder	41	28198778		Facet
6	27190965	Holder	42	28135244Y		Badge <b></b>
7	27190428A	KGLS-10RF,Holder		28135245		Badge <g></g>
8	27190470	KGLS-18S,Holder	43	838130088		3TTB+8B,Self-tapping screw
9	830440089	4TTC+8C(BC),Self-tapping screw	44	27215329		Decorative frame <d a="" r="" t="" w=""></d>
10	27300750	↑ #2271,Bushing,cord		27215330		Decorative frame <p></p>
11	27301396	HL-28-0,Clamp		27215331		Decorative frame <g></g>
12	27160446B	Heat sink	45	28141336Y		Cushion
13	801433	3SMS8W.SW+14B(BC),Special screw	D5621	22380273		RS804M, Diode
14	27141681	Retainer PWB	E801	260208		Wire tie
15	27141740	Retainer L	E811	223024Y	$\triangle$	AC238,Isolated sheet
16	27141741	Retainer R	E821	24502308		D09T-24PG07(EX),Fan
18	27141742	Retainer, fan	E895	880048		P-3055B-8L,Plastic rivet <p t=""></p>
19	838150108	5TTB+10B,Self-tappping screw	F902	252244 or		5A-SE-TL250V or
20	27141743	Retainer F				5A-SE-EAK,Fuse <p a="" r="" t="" w=""></p>
21	27150439	Shield plate	F903	252241 or	Δ	2.5A-SE-TL250V or
22	28191851A	Clear plate		252075	$\overline{\mathbb{A}}$	2.5A-SE-EAK,Fuse <p t=""></p>
23	28133385	Back plate <b></b>	F904	252199		10A-UL,Fuse <d r="" w=""></d>
	28133386	Back plate <g></g>	F941,F942	252160	Λ	2.5A-UL/T-237,Fuse <d></d>
24	28325497A	Knob,Power <b></b>		252241 ог	Δ	2.5A-SE-TL250V or
	28325499A	Knob,Power <g></g>		252075	$\overline{\Delta}$	2.5A-SE-EAK, Fuse <p t="" w=""></p>
25	27190902	KGPS-16S,Holder	P8002	2047151512		NCFC7-151512,Flexible flat cable
26	28184757	Top cover <b></b>	P8501	2047255012		NCFC7-255012,Flexible flat cable
	28184758	Top cover <g></g>	P901	253281VOL or	Δ	AS-UC-2#18 or
27	28141272Y	10x60x20,Cushion		253289HIT	Δ	AS-UC-2#18,Power supply cord <d></d>
28	838430088	3TTB+8B(BC), Self-tapping screw <b></b>		253245MAR	$\triangle$	AS-CEE,Power supply cord <p t=""></p>
	838930088	3TTB+8B(UN), Self-tapping screw <g></g>		253246KAW	$\triangle$	AS-CEE-2,Power supply cord <w></w>
31	27175319A	Leg		253268HIT	$\Delta$	AS-SAA,Power supply cord <a></a>
32	28141332	Cushion		253274KAW	$\Delta$	AS-CCEE,Power supply cord <r></r>
33	831430088	3TTW+8B(BC),Self-tapping screw	Q5015,Q5115	2202843,	*	2SC5242-O,
34	28325683	Knob SS <b></b>	Q5215,Q5315	2202842,	*	2SC5242-R,
	28325684	Knob SS <g></g>	Q5415	2201653,	*	2SC3856-O,
35	28325651	Knob, Volume <b></b>		2201655 or	*	2SC3856-P or
	28325653	Knob, Volume <g></g>		2201654	*	2SC3856-Y,Transistor
36	27122617	Rear panel <d></d>	Q5016,Q5116	2202833,	*	2SA1962-O,
	27122618	Rear panel <p></p>	Q5216,Q5316	2202832,	*	2SA1962-R,
	27122619	Rear panel <t></t>	Q5416	2201663,	*	2SA1492-O,
	27122620	Rear panel <w></w>		2201665 or	*	2SA1492-P or
	27122621	Rear panel <r></r>		2201664	*	2SA1492-Y,Transistor
	27122656	Rear panel <a></a>				

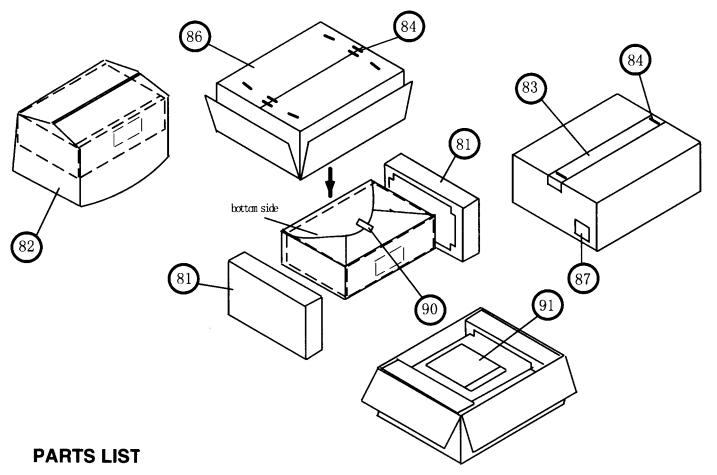
REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
Q5019,Q5119	2212863 or	2SC3419-O or	U13	1A841518-3A	NASW-6618-3A, Holder for PC board <d></d>
Q5419	2212864	2SC3419-Y,Transistor		1A841518-3B	NASW-6618-3B, Holder for PC board <p t=""></p>
T901	2301414	NPT-1372D,Power transformer <d></d>		1A841518-3C	NASW-6618-3C, Holder for PC board < W/R>
	2301415	NPT-1372P,Power transforemer <p a="" t=""></p>		1A841518-3D	NASW-6618-3D, Holder for PC board <a></a>
	2301416 △	NPT-1372DG,Power transformer <w r=""></w>	U14	1A841519-3A	NASW-6619-3A, Power switch PC board ass'y <d></d>
U1	1A841500-3A	NAAF-6600-3A,Power amplifier PC board ass'y <d></d>		1A841519-3B	NASW-6619-3B, Power switch PC board ass'y <p t=""></p>
	1A841500-3B	NAAF-6600-3B, Power amplifier PC board ass'y < P/T/W/A/R>		1A841519-3C	NASW-6619-3C, Power switch PC board ass'y <w r=""></w>
U2	1A841501-3A	NAAF-6601-3A,Front/center power amplifier PC board ass'y <d></d>		1A841519-3D	NASW-6619-3D, Power switch PC board ass'y <a></a>
	1A841501-3B	NAAF-6601-3B,Front/center power amplifier PC board ass'y <p a="" r="" t="" w=""></p>	U15	1A841521-3A	NADIS-6621-3A, Display circuit PC board ass'y <d></d>
U3	1A841502-3A	NAETC-6602-3A, Thermal detector PC board ass'y <d></d>		1A841521-3B	NADIS-6621-3B, Display circuit PC board ass'y <p a="" r="" t="" w=""></p>
	1A841502-3B	NAETC-6602-3B,Thermal detector PC board ass'y <p a="" r="" t="" w=""></p>	U16	1A841522-3A	NAVD-6622-3A,S- video terminal PC board ass'y <d></d>
U4	1A841506-3A	NAETC-6606-3A,Secondary circuit PC board ass'y <d></d>		1A841522-3B	NAVD-6622-3B,S- video terminal PC board ass'y <p a="" r="" t="" w=""></p>
	1A841506-3B	NAETC-6606-3B,Secondary circuit PC board ass'y <p a="" r="" t="" w=""></p>	U17	1A841523-3A	NAVD-6623-3A,On-screen PC board ass'y <d></d>
U5 -	- 1A841508-3A	NADG-6608-3A,DSP circuit PC board ass'y <d a="" r="" t="" w=""></d>		1A841523-3B	NAVD-6623-3B,On-screen PC board ass'y <p a="" r="" t="" w=""></p>
	1A841508-3B	NADG-6608-3B,DSP circuit PC board ass'y <p></p>	U18	1A841524-3A	NAETC-6624-3A, Headphone terminal PC board ass'y <d></d>
U6	1A841510-3A	NAPS-6610-3A,Primary circuit PC board ass'y <d></d>		1A841524-3B	NAETC-6624-3B, Headphone terminal PC board ass'y <p a="" r:<="" t="" td="" w=""></p>
	1A841510-3B	NAPS-6610-3B,Primary circuit PC board ass'y <p t=""></p>	U19	1A841525-3A	NAETC-6625-3A, Mian volume PC board ass'y <d></d>
	1A841510-3C	NAPS-6610-3C,Primary circuit PC board ass'y <w r=""></w>		1A841525-3B	NAETC-6625-3B, Mian volume PC board ass'y < P/T/W/A/R>
	1A841510-3D	NAPS-6610-3D,Primary circuit PC board ass'y <a></a>	U20	1A841527-3A	NAAR-6627-3A,Main circuit PC board ass'y <d></d>
U7	1A841511-3A	NAAF-6611-3A,Input terminal PC board ass'y <d></d>		1A841527-3B	NAAR-6627-3B,Main circuit PC board ass'y <p></p>
	1A841511-3B	NAAF-6611-3B,Input terminal PC board ass'y <p t=""></p>		1A841527-3C	NAAR-6627-3C,Main circuit PC board ass'y <t a=""></t>
	1A841511-3C	NAAF-6611-3C,Input terminal PC board ass'y <w r=""></w>		1A841527-3D	NAAR-6627-3D, Main circuit PC board ass'y < W/R>
	1A841511-3D	NAAF-6611-3D,Input terminal PC board ass'y <a></a>	U21	1A841528-3A	NAAF-6628-3A,Pre., amplifier PC board ass'y <d></d>
U8	1A841512-3A	NAETC-6612-3A, Front video terminal PC board ass'y <d></d>		1A841528-3B	NAAF-6628-3B,Pre., amplifier PC board ass'y <p></p>
	1A841512-3B	NAETC-6612-3B,Front video terminal PC board ass'y <p t=""></p>		1A841528-3C	NAAF-6628-3C,Pre., amplifier PC board ass'y <t a=""></t>
	1A841512-3C	NAETC-6612-3C,Front video terminal PC board ass'y <w r=""></w>		1A841528-3D	NAAF-6628-3D,Pre., amplifier PC board ass'y <w r=""></w>
	1A841512-3D	NAETC-6612-3D, Front video terminal PC board ass'y <a></a>	U24	25136607	NCETC-6607, Holder PC board <d></d>
U9	1A841513-3A	NAETC-6613-3A,Holder for PC board <d></d>	U25	25136723	NCETC-6723, Holder PC board <d></d>
	1A841513-3B	NAETC-6613-3B,Holder for PC board <p t=""></p>	U31	240134	TFCE1U114A,Tuner pack <d></d>
	1A841513-3C	NAETC-6613-3C,Holder for PC board <w r=""></w>		240135	TFCE1E512A, Tuner pack < P/T/W/A/R>
	1A841513-3D	NAETC-6613-3D, Holder for PC board <a></a>			
U10	1A841514-3A	NAETC-6614-3A,Surround/front B speaker terminal PC board ass'y <d></d>			
	1A841514-3B	NAETC-6614-3B,Surround/front B speaker terminal PC board ass'y <p t=""></p>		NOTE: -	<b>: Black model only <t>: Asian model only</t></b>
	1A841514-3C	NAETC-6614-3C,Surround/front B speaker terminal PC board ass'y <w r=""></w>			<g>: Golden model only <w>: Worldwide model only</w></g>
	1A841514-3D	NAETC-6614-3D,Surround/front B speaker terminal PC board ass'y <a></a>			<d>: 120V model only <a>: Australian model only</a></d>
U11	1A841515-3A	NAETC-6615-3A, Front/center speaker terminal PC board ass'y <d></d>			<p>: 230V model only <r>: Chinese model only</r></p>
	1A841515-3B	NAETC-6615-3B,Front/center speaker terminal PC board ass'y <p t=""></p>			
	1A841515-3C	NAETC-6615-3C,Front/center speaker terminal PC board ass'y <w r=""></w>			
	1A841515-3D	NAETC-6615-3D,Front/center speaker terminal PC board ass'y <a></a>			
U12	1A841517-3A	NAETC-6617-3A, Power transformer terminal PC board ass'y <d></d>			
	1A841517-3B	NAETC-6617-3B, Power transformer terminal PC board ass'y < P/T>			NOTE: THE COMPONENTS INENTIFIED BY MARK
	1A841517-3C	NAETC-6617-3C, Power transformer terminal PC board ass'y < W/R>			⚠ ARE CRITICAL FOR RISK OF FIRE AND
	1 4 9 4 1 5 1 7 2 1	NAETC 6617 2D Down transformer terminal DC board and a As			THE PROPERTY OF THE PROPERTY O

NOTE: THE COMPONENTS INENTIFIED BY MARK

ARE CRITICAL FOR RISK OF FIRE AND
ELECTRIC SHOCK. REPLACE ONLY WITH
PART NUMBER SPECIFIED.

1A841517-3D NAETC-6617-3D, Power transformer terminal PC board ass'y <A>

## **PACKING VIEW**



REF.NO.	PART NO.	DESCRIPTION	
81	29091881A	Pad	
82	29100153Y	1020x720,Polybag	
83	29110098	PP tape	
84	282301	Staple	
86	29053463	Carton box <d></d>	
	29053464	Carton box <p></p>	
	29053465	Carton box <t a="" r="" w=""></t>	
	29053466	Carton box <g></g>	
87	29362476	Label EAN <p a="" r="" t="" w=""></p>	
	29362477	Label EAN <g></g>	
	29362478	Label UPC <d></d>	
90	261504	Paper tape	
91	29100097-1A	350*250,Polybag	
	29365083	Warranty card <d></d>	
	29095866	Instruction sheet <d></d>	
	29342721A	Instruction manual E	
	29342722	Instruction manual U3 GSWD <p></p>	
	29342723	Instruction manual U3 FSI <p></p>	
	29342726	Instruction manual T <t w=""></t>	
	29342725	Instruction manual <d></d>	
	24140392A —	RC-392M,remote controller	
	3010054	Battery	NOTE: <b>: Black model only</b>
	25055018	CV-K-1,Conversion plug <wt></wt>	<g>: Golden model only</g>
	25056005 or	CV-K-1 or	<d>: 120V model only</d>
	292115	FM antenna <p t="" w=""></p>	<p>: European model only</p>
	292142	FM antenna <d></d>	<t>: Asian model only</t>
	25065462	YAE21-0237,FM antenna adapter <t w=""></t>	<w>: Worldwide model only</w>
	232140	NMA-3057,AM loop antenna	<wt>: Taiwanese model only</wt>